CHAPTER - IV

DEMOGRAPHIC PROFILE, PERCEPTION, PURCHASE PATTERN AND AWARENESS ON ONLINE SHOPPING

This chapter consists of analysis and interpretation of results obtained from the study. The data collected through questionnaire have been analyzed with the help of appropriate statistical tools. The results were drawn according to the objectives and hypothesis of the study. This chapter gives a detailed analysis on perception, purchase pattern and awareness on online shopping.

4.1 PROFILE OF THE RESPONDENTS

This part of the study analyses the demographic profile, Socio economic profile of the respondents who purchase branded and non-branded products through online shopping sites.

Gender

Gender as one of the variables of demographic factor has a significant impact on online purchase of consumers.

Table 4.1 Gender of Respondents

| gender of Respondents | | |
|-----------------------|-----|---------|
| Gender | No. | Percent |
| Male | 156 | 36.4 |
| Female | 272 | 63.6 |
| Total | 428 | 100.0 |

Source: Primary Data

It is known from the above table 4.1 that the total women respondents were 63.6 per cent who occupies the majority strength compared to the men respondents (36.4 per cent). The result reveals that women are more impulsive to buy as compared to men and are more attracted towards online purchase.

Age

Age as an important demographic variable not only determines an individual's physical and mental maturity, but also depicts life experience of the individuals.

Table 4.2 Age of Respondents

| Age | No. | Percent |
|--------------------|-----|---------|
| Less than 25 Years | 232 | 54.2 |
| 26 – 35 Years | 95 | 22.2 |
| 36 – 45 Years | 57 | 13.3 |
| 46 – 55 Years | 44 | 10.3 |
| Total | 428 | 100.0 |

Source: Primary Data

It is depicted from the above table 4.2 that the respondents belong to below 25 years of age group are 54.2 per cent, who's age group between 26 – 35 years are 22.2 per cent, who's age group between 36 to 45 years are 13.3 per cent and who's age group between 46-55 years are 10.3 per cent. Thus, the majority of the respondents belong to the age group below 25 years. The result shows that the young aged people prefer more online shopping.

Marital Status

In Indian society, marriage is supposed to be a religious obligation. In the social context, it is the prelude to the family formation, expansion or ever bifurcation. After marriage, there is transition in the status of men and women with attendant rights and obligations.

Table 4.3
Marital Status of Respondents

| Marital Status | No. | Percent |
|-----------------------|-----|---------|
| Married | 203 | 47.4 |
| Unmarried | 225 | 52.6 |
| Total | 428 | 100.0 |

Source: Primary Data

It is evidenced from the table 4.3 that the respondents who have been unmarried are 52.6 per cent and 47.4 per cent are married. Thus, most of the respondents are unmarried.

Educational Qualification

Education has a positive impact on social life and on the quality of life and vice versa with illiteracy. Whether literacy is synonymous with education in the developing countries and with reference to weak sections is a question confronting not only widens the knowledge, but also helps a person to make use of rational and scientific approach to solve the problems. This makes the consumer to collect information from various sources.

Table 4.4 Educational Qualification of Respondents

| Educational Qualification | No. | Percent |
|----------------------------------|-----|---------|
| Up to School Level | 98 | 22.9 |
| Graduate | 207 | 48.4 |
| Post Graduate | 88 | 20.6 |
| Diploma | 12 | 2.8 |
| Professional | 23 | 5.4 |
| Total | 428 | 100.0 |

Source: Primary Data

The table 4.4 exhibits about the educational qualification of the respondents. The respondents who graduated are 48.4 per cent, respondents who have completed school level are 22.9 per cent, post graduated are 20.6 per cent, respondents who have completed professional courses are 5.4 per cent and who have completed diploma are 2.8 per cent. Thus, the majority of the respondents completed their under graduation courses.

Occupation

Occupation determines the social standing of a family. This is due to the different occupations which decide the status as also varying privileges and economic benefits.

Table 4.5 Occupation of Respondents

| Occupation | No. | Percent |
|-------------------------------|-----|---------|
| Student and not working | 126 | 29.4 |
| Student and part-time working | 42 | 9.8 |
| Private Employment | 94 | 22.0 |
| Government Employment | 15 | 3.5 |
| Business | 67 | 15.7 |
| Professional | 18 | 4.2 |
| House Wife | 66 | 15.4 |
| Total | 428 | 100.0 |

Source: Primary Data

The table 4.5 constitutes about the occupation of the respondents. The respondents belongs to "student and not working" are 29.4 per cent, respondents who engaged with private employment are 22.00 per cent. 15.70 per cent of the respondents are on their own business, 15.40 per cent of the respondents are house wives, "students and part time working" are 9.80 per cent, respondents who are enrolled with professional jobs are 4.20 per cent and respondents who are positioned with Government employment are 3.50 per cent. The result reveals that most of the shoppers fall under the category of students. Thus, the majority of the respondents are students who are not working.

Type of the family

It is more important for the online marketers to know about the type of the family. It impacts on buying pattern directly. This decides the spending capacity of the family. A nuclear family comprises of married couple and their children. A joint family comprises of married couple, their children, their parents and relatives.

Table 4.6
Type of Family of Respondents

| Type of the Family | No. | Percent |
|--------------------|-----|---------|
| Nuclear family | 326 | 76.2 |
| Joint family | 102 | 23.8 |
| Total | 428 | 100.0 |

Table 4.6 depicts about type of the family. The respondents who belongs to nuclear family are 76.2 per cent and the respondents who belong to joint family are 23.8 per cent. Thus, most of the respondents belongs to the nuclear family.

Size of the Family

The size of the family determines the scope of consumption and potentialities of production and there by solvency of their needs.

Table 4.7 Family Size of Respondents

| - dilling Size of 2105 points | | |
|-------------------------------|-----|---------|
| Size of the family | No. | Percent |
| 2members | 21 | 4.9 |
| 3members | 81 | 18.9 |
| 4 members | 231 | 54.0 |
| Above 5 members | 95 | 22.2 |
| Total | 428 | 100.0 |

Source: Primary Data

The above table 4.7 informs about the size of the family. The respondent's family with 4 members are 54.00 per cent and who have more than 5 members in their family are 22.2 per cent. The respondents who have 3 members in their family are 18.90 per cent and who have 2 members in their family are 4.90 per cent. Thus, the majority of the respondents belongs to the family with 4 members.

Number of Earning Members in the Family

In general, earning member gets influenced by the family members depending upon the relationship in the family. If the number of earning members increased then their spending capacity will also increase.

Table 4.8
Number of Earning Members in the Family

| Number of earning members | No. | Percent |
|---------------------------|-----|---------|
| 1 | 135 | 31.5 |
| 2 | 204 | 47.7 |
| 3 | 63 | 14.7 |
| 4 and above | 26 | 6.1 |
| Total | 428 | 100.0 |

Source: Primary Data

The above table 4.8 depicts about number of earning members in the respondent's family. 47.70 per cent of respondents belong to the family having 2 earning members, 31.50 per cent of respondents having one earning member, 14.70 per cent of respondents having 3 earning members and 6.10 per cent of respondents belong to the family having more than 4 earning members. Thus, the majority of the respondents belongs to the family having 2 earning members.

Monthly Income

Income is the main distinguished demographic characteristics which may influence the product preference money spent and their choice of the product. The income level of the consumers play an important role while purchasing the products.

Table 4.9 Monthly Income of Respondents

| Monthly Income | No. | Percent |
|-----------------------|-----|---------|
| Below Rs.25,000 | 122 | 28.5 |
| Rs.25000 - Rs.40,000 | 140 | 32.7 |
| Rs.40000 - Rs.55,000 | 60 | 14.0 |
| Rs.55000 – Rs.70,000 | 55 | 12.9 |
| Above Rs.70,000 | 51 | 11.9 |
| Total | 428 | 100.0 |

Source: Primary Data

The above table 4.9 is detailed about the monthly income of the family. 32.70 per cent respondents ear Rs.25,000 to Rs.40,000, 28.50 per cent earn less than Rs.25,000 as their family income, 14.00 per cent respondents belong to the family having income between Rs.40,000 to Rs.55,000. 12.90 per cent respondents belong to the family having income between Rs.55000 to Rs.70,000 and 11.90 per cent of respondents belong to the family having above Rs.70,000 as their family income. Income is an important variable impact on frequency of online purchase of consumers. Thus, the majority of the respondents belong to the family having less than Rs.25,000 as their monthly family income.

Knowledge about Shopping Websites

All the consumers came to know about the shopping websites from other sources. Sometimes from their own willingness, they search for the details about shopping websites. The following are the some of the sources of the knowledge on shopping websites.

Table 4.10 Knowledge about Shopping Websites

| Knowledge about Shopping Websites | No. | Percent |
|---|-----|---------|
| With my own knowledge | 66 | 15.4 |
| By the recommendation of the friends/ relatives/ Colleagues | 134 | 31.3 |
| By the advertisement's in the Newspapers and the Television | 107 | 25.0 |
| By the advertisement's in the Social Media Networking Sites | 93 | 21.7 |
| By the Links in E-Mail & Social Media | 28 | 6.5 |
| Total | 428 | 100.0 |

The table 4.10 says about the knowledge on shopping websites by the respondents. 31.30 per cent of respondents have knowledge on shopping sites through their friends/ relatives/ colleagues. 25.00 per cent of respondents came to know by the advertisements in newspapers and television, 21.70 per cent came to know by the advertisements in social media and networking sites, 15.40 per cent of respondents knew through shopping websites by their own and 6.50 per cent of the respondents by links in e-mail and social media.

Impact of Advertisement on Purchase of Products through Shopping Websites

In this digital world, to make a product to reach the consumers, advertisement is necessary. In this, online marketing advertisement plays a vital role. Such advertisement influence the consumers to purchase the product.

Table 4.11 Impact of Advertisement on Purchase of Products through Shopping Websites

| Impact | No. | Percent |
|---------------------------------|-----|---------|
| To make Purchase | 58 | 13.6 |
| Discuss with others to purchase | 158 | 36.9 |
| Not considered for the purchase | 59 | 13.8 |
| Search for more Information | 153 | 35.7 |
| Total | 428 | 100.0 |

Source: Primary Data

The table 4.11 denotes about the impact of advertisement on shopping sites. The advertisement makes 36.90 per cent of respondents to discuss with others to purchase, it makes 35.70 per cent of the respondents to search for more information, it makes 13.80 per cent of respondents not to consider for the purchase and the advertisement makes 13.60 per cent of the respondents to purchase. Thus, the majority of the respondents discuss with others to purchase after seeing advertisement in various media.

Rank Analysis for Attractive Elements of Advertisement on Shopping Websites

The respondents were asked to rank a set of 6 items regarding online shopping. The most important item has given rank 1. The least important item has given a rank of 6. Mean ranks have been found out for each item and were again ordered based on the mean values. The details are given in the following table.

Table 4.12
Rank Analysis for Attractive Elements of Advertisement on Shopping Websites

| Elements | Mean Rank |
|-------------------------|-----------|
| Headlines/Captions | 3.56 |
| Pictures | 3.04 |
| Message of the products | 3.58 |
| Brand Name/ Logos | 2.97 |
| Celebrity | 4.41 |
| Offers | 3.45 |

Source: Primary Data

It is seen from the above table 4.12 that the lowest mean rank is 2.97 for "Brand Name/Logos". It has the highest rank order value of 1. The highest mean rank is 4.41 for "Celebrity". It has the lowest rank of 6.

Kendall's Coefficient of Concordance

| Kendall's W | 0.076 |
|-------------|-------|

Kendall's co-efficient of concordance (W) was used to find whether there is any similarity among the respondents in their order of assigning the ranks. Kendall's (W) will vary between 0 and 1. Higher the value of W more will be the similarity of the respondents in their rank order. The Kendall's W found for the 6 items is 0.076. This shows that there is very low similarity among the respondents in their ranking order,

Frequency of Visiting Shopping Websites

The frequency of visiting various shopping sites were distributed among the respondents from always to never. The distribution is given below in the following Table.

Table 4.13 Frequency of Visiting Shopping Websites

| Shopping Sites/ H | requency | Always | | Occasionally | Rarely | Never | Total |
|--------------------------|----------|--------|------|--------------|--------|-------|-------|
| A magan in | No. | 245 | 109 | 54 | 14 | 6 | 428 |
| Amazon.in | % | 57.2 | 25.5 | 12.6 | 3.3 | 1.4 | 100.0 |
| Elinkant aam | No. | 133 | 181 | 73 | 32 | 9 | 428 |
| Flipkart.com | % | 31.1 | 42.3 | 17.1 | 7.5 | 2.1 | 100.0 |
| Cnandaal aam | No. | 53 | 69 | 156 | 63 | 87 | 428 |
| Snapdeal.com | % | 12.4 | 16.1 | 36.4 | 14.7 | 20.3 | 100.0 |
| Paytm.com | No. | 51 | 119 | 88 | 82 | 88 | 428 |

| | % | 11.9 | 27.8 | 20.6 | 19.2 | 20.6 | 100.0 |
|----------------|-----|------|------|------|------|------|-------|
| | No. | 23 | 36 | 102 | 109 | 158 | 428 |
| E-bay.in | % | 5.4 | 8.4 | 23.8 | 25.5 | 36.9 | 100.0 |
| Cl | No. | 11 | 41 | 83 | 115 | 178 | 428 |
| Shopclues.com | % | 2.6 | 9.6 | 19.4 | 26.9 | 41.6 | 100.0 |
| Homeshop18.com | No. | 16 | 27 | 68 | 71 | 246 | 428 |
| | % | 3.7 | 6.3 | 15.9 | 16.6 | 57.5 | 100.0 |

The table 4.13 depicts that 57.5 per cent of respondents have never visited Homeshop18.com, 57.2 per cent of the respondents always visit amazon.in and Flipcart.com is frequently visited by 42.3 per cent of respondents. 36.9 per cent of respondents never visit e-bay.in, 27.8 per cent of the respondents frequently visit paytm.com, 26.9 per cent of respondents rarely visit shopclues.com and 20.3 per cent of respondents have never visited snapdeal.com. Thus, most of the respondents prefer Amazon.in and Filpkart.com, frequently.

Influence of Advertisement to Purchase of Products through Shopping Sites

Advertising is a mass media content influenced to persuade consumer to take action on products, services and ideas. After watching advertisement, their thought of purchasing product refers to the influence of advertisement on online shopping.

Table 4.14
Influence of Advertisement to Purchase of Products through Shopping Sites

| | No. | Percent |
|-------|-----|---------|
| Yes | 273 | 63.8 |
| No | 155 | 36.2 |
| Total | 428 | 100.0 |

Source: Primary Data

The table 4.14 denotes that 63.8 per cent of the respondents were influenced by the advertisements given in various Medias and 36.2 per cent of the respondents were not influenced by the advertisements given through various media. Most of the respondents are influenced by advertisement to purchase through online.

Kinds of Products Purchased through Online Shopping

The individual consumer has a set of values and preference whose determinations are outside the realm of economics. There are various classifications of products available in the online market. All such varieties can be mainly classified into two categories. The following table shows the kinds of products purchased through online shopping sites.

Table 4.15
Kinds of Products Purchased through Online Shopping

| Kinds of Products | No. | Percent |
|--------------------------|-----|---------|
| Branded | 202 | 47.2 |
| Non Branded Products | 141 | 32.9 |
| Both | 85 | 19.9 |
| Total | 428 | 100.0 |

It is known from the table 4.15 that 47.2 per cent of the respondents have purchased only branded products through online shopping, 32.9 per cent of respondents have purchased only non – branded products and 19.9 per cent of the respondents purchased both branded and non-branded products through online shopping sites.

Occasion for Purchase of Products through Online Shopping

The consumers may purchase their products through online shopping during various occasions. The following table expresses about such occasions.

Table 4.16
Occasion for Purchase of Products through Online Shopping

| Occasion | No. | Percent |
|---------------------------|-----|---------|
| Whenever needed | 182 | 42.5 |
| Festival season | 88 | 20.6 |
| Special Offers/ Discounts | 133 | 31.1 |
| Special Occasions | 25 | 5.8 |
| Total | 428 | 100.0 |

Source: Primary Data

The table 4.16 informs about the occasion of purchase through online shopping. 42.5 per cent of the respondents have purchased through online whenever they are in need. 31.1 per cent of respondents purchase when shopping sites give special offers/ discounts, 20.6 per cent of the respondents purchase during festival season and 5.8 per cent of the respondents purchase only during some special occasions. Thus, most of the respondents purchase through online shopping whenever they are in need.

Purchase Decision Maker in the Family

Even though there are number of members in the family, some specific persons make purchase decision in their family. The following table reveals the dominant position of the members in decision making.

Table 4.17
Purchasing Decision Maker in the Family

| Decision Makers | No. | Percent |
|------------------------------|-----|---------|
| Earning Male | 130 | 30.4 |
| Earning Female | 60 | 14.0 |
| Both earning Male and Female | 81 | 18.9 |
| Children | 13 | 3.0 |
| Elders | 28 | 6.5 |
| All the members | 116 | 27.1 |
| Total | 428 | 100.0 |

The table 4.17 represents the deciding authority for online purchase in their family. In 30.4 per cent of the respondent's family, earning male took the final decision for online purchase in their family, 27.1 per cent of the respondents expressed that all the family members make the decision for online purchase in the family, 18.9 per cent of the respondent's family both earning men and women are the deciding authority, 14 per cent of the respondent's family earning women decide, 6.5 per cent of the respondent's family, elders are the decision makers and 3 per cent of the respondents are children decision makers. Thus, majority of the decision makers are the earning men in their family.

Amount Spent on Purchase of Online Products

The income of the consumers influence the purchasing power of the consumers. They are highly price sensitive and certainly not during the special occasions. The following table displays the amount spent on the purchase of online products.

Table 4.18
Amount Spent on Purchase of Online Products

| Amount Spent | No. | Percent |
|----------------------|-----|---------|
| Less than Rs.2,000 | 208 | 48.6 |
| Rs.2001 to Rs.4,000 | 127 | 29.7 |
| Rs.4001 to Rs.6,000 | 41 | 9.6 |
| Rs.6001 to Rs.8,000 | 12 | 2.8 |
| Rs.8001 to Rs.10,000 | 31 | 7.2 |
| Rs.10,001 & Above | 10 | 2.1 |
| Total | 428 | 100.0 |

Source: Primary Data

The table 4.18 discusses the amount spent on online purchase of products per month. 48.6 per cent of the respondents spends less than Rs.2,000 per month for online purchase, 29.7 per cent of respondents spends between Rs.2,001 to Rs.4,000 per month and 9.6 per cent of respondents spends between Rs.4,001 to Rs.6,000 per

month. 7.2 per cent of respondents spends Rs.8,001 to Rs.10,000 per month, 2.8 per cent of respondents spends between Rs.6,001 to Rs.8,000 per month, and 2.1 per cent of respondents spends more than Rs.10,000 per month for online purchase. Thus, the most of the respondents spend below Rs.2,000 for online purchase per month.

Kind of payment on Purchase of Online Products

There are various types of payment modes available for the purchase of online products. The following are the some of the payment modes existed in online shopping sites.

Table 4.19
Kind of payment on Purchase of Online Products

| Payment Mode | No. | Percent |
|------------------|-----|---------|
| Debit Card | 49 | 11.4 |
| Credit Card | 51 | 11.9 |
| Cash on Delivery | 302 | 70.6 |
| Net Banking | 26 | 6.1 |
| Total | 428 | 100.0 |

Source: Primary Data

The table 4.19 describes the preference of payment mode for the purchase of goods. 70.6 per cent of respondents prefer cash on delivery, 11.9 per cent of respondents prefer credit cards, 11.4 per cent of respondents prefers debit cards to pay for the purchase of goods through online shopping sites and 6.1 per cent of respondents prefer net banking for purchase of products through online shopping. Accordingly, the result reveals that the majority of the respondents prefer for cash on delivery.

Descriptive Statistics - Perception Regarding Purchase of Online Products

Respondents were asked to express their opinion/perception regarding online purchase on a 5 point rating scale. The scale consisted of 22 statements. The ratings assigned by the respondents for each statement is Strongly Disagree -1, Disagree - 2, Neutral -3, Agree -4, Strongly Agree -5. Higher the rating more will be the level of the agreement of the respondent. Mean rating were found out for each item which are given below.

Table 4.20
Descriptive Statistics - Perception Regarding Purchase of Online Products

| Dorgantian regarding anline nurshase | N | Minimum | Maximum | Mean | S.D |
|--|-----|---------|-------------|--------|---------|
| Perception regarding online purchase | 11 | William | Maxilliulli | Mean | S.D |
| It has very less procedure to place an order | 428 | 1.00 | 5.00 | 4.1729 | .77309 |
| I purchase products through online according to my Interest | 428 | 1.00 | 5.00 | 3.9930 | .89099 |
| It is convenient for me to purchase online | 428 | 1.00 | 5.00 | 3.7593 | .88735 |
| Due to busy schedule I prefer online shopping | 428 | 1.00 | 5.00 | 3.6402 | .90870 |
| I have shopping privacy in online shopping | 428 | 1.00 | 5.00 | 3.6893 | .95283 |
| I can shop from my home itself | 428 | 1.00 | 5.00 | 3.9463 | .93559 |
| Online shopping saves me from market crowd | 428 | 1.00 | 5.00 | 3.8621 | .89347 |
| I can get detailed product information from the shopping sites itself | 428 | 1.00 | 5.00 | 3.5584 | .90476 |
| Due to availability of more products broader selection is possible | 428 | 1.00 | 5.00 | 3.6495 | .85948 |
| I can get user reviews for products available in the shopping sites | 428 | 1.00 | 5.00 | 3.8575 | .81884 |
| There is no embarrassment for me if do not buy | 428 | 1.00 | 5.00 | 3.6262 | .91332 |
| There is no time limit for purchase of products through online(24 X 7) | 428 | 1.00 | 5.00 | 4.0654 | 1.01761 |
| I can control my expenses in a better way | 428 | 1.00 | 5.00 | 3.6519 | .79978 |
| I can purchase from anywhere, at any point, and from any vendor located domestically | 428 | 1.00 | 5.00 | 3.7944 | .84917 |
| I can customize the products based on requirements | 428 | 1.00 | 5.00 | 3.7173 | .83370 |
| It is easy to make payment for purchase of products through shopping sites | 428 | 1.00 | 5.00 | 3.4229 | .97324 |
| I can get more care with individual attention | 428 | 1.00 | 5.00 | 3.9299 | .87363 |
| I can get easy return/refund/replacement | 428 | 1.00 | 5.00 | 3.6449 | .96060 |
| I can avail exclusive guarantee given by the online shopping sites | 428 | 1.00 | 5.00 | 3.4836 | .90650 |
| I can get immediate response to my queries | 428 | 1.00 | 5.00 | 3.8294 | .87984 |
| It is secured to make payment through online | 428 | 1.00 | 5.00 | 3.6402 | .89310 |
| I can track my account status and order status of products | 428 | 1.00 | 5.00 | 3.5561 | .92031 |

It is seen from the above table 4.20 that the ratings for all the items vary between minimum 1 to maximum 5. The highest mean rating is 4.17 for the statement "It has very less procedure to place an order", that is the level of agreement for this statement falls above "Agree". The next highest mean rating is 4.07 for the statement "There is no time limit for purchase of products through online (24X7)" which falls on "Agree". The lowest mean rating is 3.42 for "It is easy to make payment for purchase of products through shopping sites" that is the agreement level falls between Neutral and Agree. For most of the items, the mean ratings are between 3 and 4 that is the opinion of the respondents for most of the items fall between Neutral and Agree.

Opinion on Price of the Online Products

The opinion of respondents on price of the various products are discussed in the below table. The opinion on price of branded and non-branded products are obtained.

Table 4.21
Opinion on Price of Online Products

| Price of Online Products | | High | Reasonable | Low | Total |
|---------------------------------|-----|------|------------|------|-------|
| Duandad Duadwata | No. | 233 | 185 | 10 | 428 |
| Branded Products | % | 54.4 | 43.2 | 2.3 | 100.0 |
| Non Pronded Coods | No. | 28 | 280 | 120 | 428 |
| Non Branded Goods | % | 6.5 | 65.4 | 28.0 | 100.0 |

Source: Primary Data

The table 4.21 depicts the respondent's opinion on the price of various online products. 65.4 per cent of the respondents feel that the price of the non-branded products are reasonable while comparing to branded products, 54.4 per cent of respondents express that the price of the branded products are high, 43.2 per cent of respondents perceives that the price are reasonable, 28.0 per cent of the respondents mentions that the price of the non-branded products are lower than that of the branded products, 6.5 per cent of the respondents opine that the price of the non-branded products are high and 2.3 per cent of the respondents notices that the price of the branded products are low. Thus, most of the respondents observe that the price of the branded products to be high and is reasonable for the non-branded products.

Purchase Pattern of Products Purchased Online

The purchase pattern of products purchased online is given in the following table. The ratings has been assigned from Always to Rarely.

Table 4.22
Purchase Pattern of Products Purchased Online

| Purchase Patt | ern | Always | Frequently | Occasionally | Rarely | Total |
|----------------------|-----|--------|------------|--------------|--------|-------|
| Cosmetics | No. | 137 | 86 | 79 | 126 | 428 |
| Cosmetics | % | 32.0 | 20.1 | 18.5 | 29.4 | 100.0 |
| Electronics | No. | 54 | 172 | 113 | 89 | 428 |
| Electronics | % | 12.6 | 40.2 | 26.4 | 20.8 | 100.0 |
| Clothing | No. | 95 | 132 | 143 | 58 | 428 |
| Clouming | % | 22.2 | 30.8 | 33.4 | 13.6 | 100.0 |
| Accessories | No. | 58 | 183 | 109 | 78 | 428 |
| Accessories | % | 13.6 | 42.8 | 25.5 | 18.2 | 100.0 |
| Books | No. | 53 | 95 | 155 | 125 | 428 |
| DOOKS | % | 12.4 | 22.2 | 36.2 | 29.2 | 100.0 |
| Home Needs | No. | 54 | 136 | 117 | 121 | 428 |
| Home Needs | % | 12.6 | 31.8 | 27.3 | 28.3 | 100.0 |
| Kids | No. | 29 | 79 | 132 | 188 | 428 |
| Kius | % | 6.8 | 18.5 | 30.8 | 43.9 | 100.0 |

The table 4.22 exhibits that 43.9 per cent of the respondents purchase kids products rarely, 42.8 per cent of the respondents purchase accessories frequently, 40.2 per cent of the respondents purchase electric products frequently, 36.2 per cent of respondents purchase books occasionally, 33.4 per cent of the respondents purchase clothing occasionally, 32 per cent of the respondents purchase cosmetics always, 31.8 per cent of the respondents purchase home need products frequently, 29.4 per cent of the respondents purchase cosmetics rarely and 18.5 per cent of the respondents purchase occasionally.

Time Taken for Purchase of Online Products from their Wish List

Wish Lists are the collections of interested products saved by the customers to their user account, signifying interest without immediate intend to purchase. Such products may be purchased in some time gap. The results of time taken on the purchase of online product from their wish list is given below.

Table 4.23
Time Taken for Purchase of Online Products from their Wish List

| Time Taken | No. | Percent |
|----------------|-----|---------|
| Immediately | 136 | 31.8 |
| 2-3 days | 136 | 31.8 |
| Within a week | 116 | 27.1 |
| Within a month | 40 | 9.3 |
| Total | 428 | 100.0 |

Source: Primary Data

The Table 4.23 inference about the time taken to purchase online products from their kart/ wish list. 31.8 per cent of the respondents purchase immediately, 31.8 per cent of respondents takes 2-3 days to make purchase from their kart/ wish list, 27.1 per cent of the respondents take a week and 9.3 per cent of the respondents take a month to make purchase from their kart/ wish list. Thus, most of the respondents purchase immediately and some takes 2-3 days for purchase.

Reason for Delayed Purchase from Wish/ Kart List

There must be some reason for the purchase of online products from their Kart/Wish List. The below table shows some of the reasons.

Table 4.24
Reason for Delayed Purchase from Wish/ Kart List

| Reason for delayed purchase | No. | Percent |
|--------------------------------------|-----|---------|
| Financial Constraints | 43 | 14.7 |
| Waiting for more innovative products | 102 | 34.9 |
| Waiting for market response | 52 | 17.8 |
| Waiting for more product reviews | 95 | 32.5 |
| Total | 292 | 100.0 |

Source: Primary Data

The table 4.24 display the reasons for delayed purchase of products through online. Out of 428 respondents, 31.8 per cent of the respondents purchase immediately and the remaining 292 purchase later in different time gap. 34.9 per cent were delayed by waiting for more innovative products, 32.5 per cent of the respondents were delayed by waiting for more product reviews, 17.8 per cent were delayed by waiting for market response and 14.7 per cent of respondents delayed due to financial constraints. Therefore, it is resulted that most of the respondents were delayed by waiting for more product reviews.

Ranking Analysis of Brand attributes attracted to purchase online

The respondents were asked to rank a set of 10 items regarding the attractive attributes to purchase online. The most important item was given a rank 1. The least important item has given a rank of 10. Mean ranks were found out for each item and were again ordered based on the mean values. The details are given in the following table.

Table 4.25

Ranking Analysis of brand attributes attracted to purchase online

| Attributes | Mean Rank |
|-------------------------------|-----------|
| Brand Name | 3.56 |
| Transparent | 6.07 |
| Price | 4.10 |
| Easy Availability | 4.60 |
| Designs | 5.06 |
| High Quality | 4.21 |
| Fit in with friends | 6.74 |
| Value for money | 5.72 |
| Show Off | 7.82 |
| Representation of celebrities | 7.13 |

It is noted from the above table 4.25 that the lowest mean rank is 3.56, for "Brand Name" has the highest rank of 1. The highest mean rank is 7.82 for "show off" has the lowest rank of 10.

Kendall's Coefficient of Concordance

| Kendall's W | 0.223 |
|-------------|-------|
|-------------|-------|

Kendall's coefficient of concordance (W) was used to find the similarity among the respondents in order of assigning the ranks. Kendall's Co-efficient of concordance (W) was used to find the similarity among the respondents in their order of assigning the ranks. Kendall's (W) will vary between 0 and 1. High the value of W more will be the similarity of the respondents in their ranking order. The Kendall's value found for the 10 items is 0.223. This shows that there is low similarity among the respondents in their ranking order.

Role of Social Media in Online Purchase

Social Media plays a vital role in the promotion of online products. The results of role of social media on online purchase is displayed below.

Table 4.26
Role of Social Media in Online Purchase

| | No. | Percent |
|-------|-----|---------|
| Yes | 305 | 71.3 |
| No | 123 | 28.7 |
| Total | 428 | 100.0 |

Source: Primary Data

The table 4.26 shows off about the role of social media in online purchase. 71.3 per cent of the respondents agreed that social media plays important role in their online purchase and 28.7 per cent of the respondents do not depend social media for

their online purchase. Thus, the majority of the respondents depend social media for their online purchase.

Type of Information Expected from Social Media

In order to purchase online products most of the respondents seek the help of social media. They expect some of the information from the social media. The below table shows such information from the social media.

Table 4.27

Type of Information Expected from Social Media

| Type of Information | No. | Percent |
|---|-----|---------|
| Getting reviews from friends/relatives | 112 | 36.7 |
| Getting notifications in social media from the shopping sites | 94 | 30.8 |
| Recommendations from friends/relatives | 56 | 18.4 |
| Getting notifications to your mobile | 43 | 14.1 |
| Total | 305 | 100.0 |

Source: Primary Data

The table 4.27 which displays information revealed from social media helps the respondents to purchase online. Out of 305 of respondents 36.7 per cent respondents get help from social media in the form of getting reviews from friends/relatives, 30.8 per cent of the respondents get notifications in social media from the shopping sites, 18.4 per cent respondents get recommendations from friends/relatives and 14.1 per cent of respondents get notifications to their mobile about the products/ services. Thus, most of the respondents get help from the social media in the form of receiving reviews from friends/ relatives.

Requisition for Return/ Replacement

In case of any defect or change or by individual willingness, the consumers may return the products or they may get replacement with the seller. The below table explains whether they request for return or replacement or not.

Table 4.28
Requisition for Return/ Replacement

| | No. | Percent |
|-------|-----|---------|
| Yes | 272 | 63.6 |
| No | 156 | 36.4 |
| Total | 428 | 100.0 |

Source: Primary Data

The table 4.28 describes whether the respondents request for return/replacement of products which are purchased through online shopping sites.

63.6 per cent of the respondents are requested for return/replacement of products

which are purchased through online shopping sites and 36.4 per cent of the respondents didn't make any request for return/replacement. Thus, the majority of the respondents make request for return/replacement of products through online.

Reason of Requisition for Return/Replacement

Before requesting for return or replacement, there may be some reason. The following are the some of the reasons which were experienced by the respondents who had requested for return or replacement.

Table 4.29

Reason of Requisition for Return/ Replacement

| Reasons | No. | Percent |
|---|-----|---------|
| Damaged product | 83 | 30.5 |
| Changes in item specifications | 93 | 34.2 |
| Missing parts or Accessories | 19 | 7.0 |
| Defective Item | 54 | 19.9 |
| Due to particular Site/Sellers Terms and Conditions | 23 | 8.5 |
| Total | 272 | 100.0 |

Source: Primary Data

The table 4.29 shows the reasons for making request for return/replacement of products purchased through online. Out of 272 respondents 34.2 per cent of respondents request due to changes in item specifications, 30.5 per cent makes request for return or replacement due to delivery of damaged products, 19.9 per cent of respondents make request due to delivery of defective items, 8.5 per cent of respondents make request due to particular site/seller's terms and conditions and 7.0 per cent of respondents make request for return/ replacement due to missing parts / accessories. It is resulted that most of the respondents make request due to the delivery of damaged products.

Cancellation of Purchase Order

Due to some reasons, the consumers may cancel their purchase order. It may be cancelled before making payment or after making payment. The below table depicts whether they have cancelled their purchase order or not.

Table 4.30 Cancellation of Purchase Order

| | No. | Percent |
|-------|-----|---------|
| Yes | 304 | 71.0 |
| No | 124 | 29.0 |
| Total | 428 | 100.0 |

Source: Primary Data

The table 4.30 expresses whether the respondents cancel the online purchase order or not. 71.0 per cent of the respondents had cancelled their online purchase order and 29.0 per cent of the respondents didn't cancelled their online purchase order. Hence, the majority of the respondents had cancel their purchase order.

Duration of Cancellation of Purchase Order

Purchase order can be cancelled from the day of order till the day of delivery. The below table explained about the duration of the cancellation of purchase order.

Table 4.31
Duration of Cancellation of Purchase Order

| Duration | No. | Percent |
|------------------------|-----|---------|
| On the day of order | 105 | 34.5 |
| One day After | 142 | 46.7 |
| 2 days After | 34 | 11.2 |
| On the day of delivery | 23 | 7.6 |
| Total | 304 | 100.0 |

Source: Primary Data

The table 4.31 inferences about the duration of the cancellation of purchase order. 46.7 per cent of the respondents cancel their online purchase order one day after the day of order, 34.5 per cent of the respondents cancel their online purchase order on the day of order itself, 11.2 per cent of the respondents cancel their order two days after and 7.6 per cent of the respondents cancel their online purchase order on the day of delivery.

Reasons for cancellation of purchase order

Cancellation of purchase order is due to various reasons. The below table highlights the reasons for the cancellation of purchase order.

Table 4.32 Reasons for cancellation of purchase order

| Reasons | No. | Percent |
|---|-----|---------|
| Placed the order wrongly | 64 | 21.1 |
| Due to personal reason | 144 | 47.4 |
| Better price with another E-Seller | 49 | 16.1 |
| Negative reviews from friends and relatives | 41 | 13.5 |
| Double placement of order | 6 | 2.0 |
| Total | 304 | 100.0 |

Source: Primary Data

The table 4.32 informs about the reasons for the cancellation of online purchase order. Out of 304 (100 per cent) respondents, 47.4 per cent of the

respondents cancelled their order due to personal reasons, 21.1 per cent of the respondents cancelled their online purchase order due to placement of wrong order, 16.1 per cent of the respondents cancelled their order due to better price with other eseller and 13.5 per cent of the respondents cancelled due to negative reviews from friends and relatives. 2.0 per cent of the respondents cancelled due to double placement of order. Thus, most of the respondents cancelled their orders due to personal reasons.

Refund of Money on Cancellation of Purchase Order

If cancellation of order takes place after the payment, the sellers should make refund of money to the consumers account. The below table highlights whether refund is made or not.

Table 4.33
Refund of Money on Cancellation of Purchase Order

| | No. | Percent |
|-------|-----|---------|
| Yes | 156 | 51.3 |
| No | 148 | 48.7 |
| Total | 304 | 100.0 |

Source: Primary Data

The table 4.33 reveals the refund of money on the cancellation of online purchase order. Out of 304 (100 per cent) respondents 51.3 per cent of the respondents replied that they got back the amount to their account properly and 48.7 per cent of the respondents replied that they didn't get back their amount properly to their account after cancellation of the order. Thus, most of the respondents got back the amount to their account properly on the cancellation of purchase order on online shopping sites.

Reason for Delay in Refund of Money on Cancellation

Some of the respondents experienced delay in refund of money on cancellation of online purchase order. The following are some of the reasons for delay in refund of money.

Table 4.34

Reason for Delay in Refund of Money on Cancellation

| Reason | No. | Percent |
|--|-----|---------|
| Delay in refund | 25 | 16.9 |
| Due to particular site/Sellers Terms & Conditions | 53 | 35.8 |
| Due to delayed product return | 35 | 23.6 |
| Cash on delivery opted | 35 | 23.6 |
| Total | 148 | 100.0 |

Source: Primary Data

The table 4.34 conveys the reasons for not receiving the refund to their account on the cancellation of online purchase order. Out of 304 (100 per cent) respondents, 51.3 per cent are refunded properly and 48.7 per cent respondents are not refunded after cancelling the purchase order. Out of 148 (100 per cent) respondents, 35.8 per cent of the respondents feels that they are not satisfied due to particular site/seller's terms and conditions. 23.6 per cent of the respondents got the delayed refund due to delay in product return and 23.6 per cent of the respondents had problem in refund due to selection of cash on delivery option and 16.9 per cent of the respondents feel that there is delay in refund. Thus, most of the respondents faced problem in getting refund is due to particular site/seller's terms and conditions.

Personal Factors Vs Knowledge about shopping sites

Chi Square Test

1. Knowledge about shopping sites

The awareness of the respondents regarding the shopping sites have been analyzed with the help of personal variables. The distribution of the respondents regarding source of knowledge of shopping websites among the different groups of selected personal variables are given below.

The relationship between personal variables and source of knowledge on shopping websites have been tested by framing the following hypothesis.

 H_0 – **Hypothesis:** Source of knowledge on shopping websites has no significant relationship with the personal variables, namely, Gender, Age, Marital Status, Educational Qualification, Occupation, Type of the Family and Monthly Income.

Table 4.35 Knowledge about shopping sites

| Variable | Groups | | A | A] | | С | | D | | | E | Total | | V | TV | Signi |
|----------------|-------------------------|----|------|-----|------|----|------|----|------|----|------|-------|-----|--------|--------|---------|
| | - | No | % | No | % | No | % | No | % | No | % | No | % | | | ficance |
| Gender | Male | 23 | 14.7 | 46 | 29.5 | 46 | 29.5 | 34 | 21.8 | 7 | 4.5 | 156 | 100 | 3.895 | 9.488 | NS |
| | Female | 43 | 15.8 | 88 | 32.4 | 61 | 22.4 | 59 | 21.7 | 21 | 7.7 | 272 | 100 | | | |
| Age | Less than 25 Years | 32 | 13.8 | 70 | 30.2 | 59 | 25.4 | 55 | 23.7 | 16 | 6.9 | 232 | 100 | 14.148 | 12.592 | NS |
| | 26 -35 Years | 17 | 17.9 | 29 | 30.5 | 20 | 21.1 | 20 | 21.1 | 9 | 9.5 | 95 | 100 | | | |
| | 36 – 45 Years | 5 | 8.8 | 22 | 38.6 | 17 | 29.8 | 10 | 17.5 | 3 | 5.3 | 57 | 100 | | | |
| | 46 – 55 Years | 12 | 27.3 | 13 | 29.5 | 11 | 25.0 | 8 | 18.2 | | | 44 | 100 | | | |
| Marital Status | Married | 31 | 15.3 | 70 | 34.5 | 50 | 24.6 | 39 | 19.2 | 13 | 6.4 | 203 | 100 | 2.407 | 9.488 | NS |
| | Unmarried | 35 | 15.6 | 64 | 28.4 | 57 | 25.3 | 54 | 24 | 15 | 6.7 | 225 | 100 | | | |
| Educational | Up to School Level | 7 | 7.1 | 28 | 28.6 | 39 | 39.8 | 18 | 18.4 | 6 | 6.1 | 98 | 100 | 35.805 | 32.000 | ** |
| Qualification | Graduate | 37 | 17.9 | 69 | 33.3 | 40 | 19.3 | 45 | 21.7 | 16 | 7.7 | 207 | 100 | | | |
| | Post Graduate | 13 | 14.8 | 25 | 28.4 | 21 | 23.9 | 23 | 26.1 | 6 | 6.8 | 88 | 100 | | | |
| | Diploma | 1 | 8.3 | 7 | 58.3 | 4 | 33.3 | | | | | 12 | 100 | | | |
| | Professional | 8 | 34.8 | 5 | 21.7 | 3 | 13.0 | 7 | 30.4 | | | 23 | 100 | | | |
| Occupation | Student and not working | 19 | 15.1 | 38 | 30.2 | 33 | 26.2 | 30 | 23.8 | 6 | 4.8 | 126 | 100 | 38.344 | 36.415 | * |
| | Student and working | 6 | 14.3 | 14 | 33.3 | 12 | 28.6 | 4 | 9.5 | 6 | 14.3 | 42 | 100 | | | |
| | Private Employment | 15 | 16 | 28 | 29.8 | 24 | 25.5 | 22 | 23.4 | 5 | 5.3 | 94 | 100 | | | |
| | Government Employment | 6 | 40 | 5 | 33.3 | 3 | 20 | | | 1 | 6.7 | 15 | 100 | | | |
| | Business | 14 | 20.9 | 14 | 20.9 | 16 | 23.9 | 19 | 28.4 | 4 | 6 | 67 | 100 | | | |
| | Professional | 1 | 5.6 | 7 | 38.9 | 2 | 11.1 | 8 | 44.4 | | | 18 | 100 | | | |
| | House Wife | 5 | 7.6 | 28 | 42.4 | 17 | 25.8 | 10 | 15.2 | 6 | 9.1 | 66 | 100 | | | |
| Type of the | Nuclear Family | 49 | 15 | 95 | 29.1 | 88 | 27 | 74 | 22.7 | 20 | 6.1 | 326 | 100 | 5.302 | 9.488 | NS |
| Family | Joint Family | 17 | 16.7 | 39 | 38.2 | 19 | 18.6 | 19 | 18.6 | 8 | 7.8 | 102 | 100 | | | |
| Monthly | Below Rs.25000 | 16 | 13.1 | 39 | 32 | 44 | 36.1 | 16 | 13.1 | 7 | 5.7 | 122 | 100 | 31.414 | 26.296 | * |
| Income | Rs.25000 – Rs.40000 | 17 | 12.1 | 50 | 35.7 | 32 | 22.9 | 30 | 21.4 | 11 | 7.9 | 140 | 100 | | | |
| | Rs.40000 – Rs.55000 | 10 | 16.7 | 13 | 21.7 | 14 | 23.3 | 16 | 26.7 | 7 | 11.7 | 60 | 100 | | | |
| | Rs.55000 – Rs.70000 | 11 | 20 | 18 | 32.7 | 11 | 20 | 14 | 25.5 | | 1.8 | 55 | 100 | | | |
| | Above Rs.70000 | 12 | 23.5 | 14 | 27.5 | 6 | 11.8 | 17 | 33.3 | 2 | 3.9 | 51 | 100 | | | |

Source: Computed Data

A – with my own knowledge; B - By the Recommendation of the friends/Relatives/Colleagues;

C-By the Advertisements in News Papers and the Television; D-By the advertisements in the Social Media Networking Sites; E-By the Links in E-Mail & Social Media

Gender

Gender wise distribution of the respondents about knowledge on shopping websites is given above. Among men 29.5 per cent have knowledge by the recommendation of friends, relatives etc., and 14.7per cent have knowledge on their own. Among women 32.4 per cent have knowledge by the recommendation of friends, relatives etc., and 15.8 per cent have knowledge on their own.

Age

Age wise distribution of respondents depict that 38.6 per cent of the respondents belong to the age group between 36-45 years, who have knowledge by the recommendation of the friends/relatives/colleagues, 30.5 per cent of the respondents belong to the age group between 26-35 years, who have knowledge by the recommendation of the friends/relatives/colleagues, 30.2 per cent of the respondents belong to less than 25 years of age, who have knowledge by the recommendation of the friends/relatives/colleagues and 27.3 per cent of the respondents belong to the age group between 46-55 years who have knowledge by the recommendation of the friends/relatives/colleagues.

Marital Status

Marital Status wise distribution of respondents expresses that both married (34.5 per cent) and unmarried respondents (28.4 per cent) are aware about shopping websites by the recommendation of the friends/relatives/colleagues.

Educational Qualification

Educational qualification wise distribution of respondents reveals that 58.31 per cent of the respondents who completed diploma have knowledge by the recommendation of the friends/relatives/colleagues, 39.8 per cent of the respondents who completed up to school level have knowledge by viewing advertisements in Newspapers and Television, 34.8 per cent of the respondents are professionals who have knowledge on their own, 33.3 per cent of the respondents who are graduates have knowledge by the recommendation of the friends/relatives/colleagues and 28.4 per cent of the respondents who are post graduates have knowledge by the recommendation of the friends/relatives/colleagues.

Occupation

With respect to occupation wise distribution of respondents, 44.4 per cent of the respondents are professionals who have knowledge by viewing advertisements in social media and networking sites, 42.4 per cent of the respondents are house wives who have knowledge by the recommendation of the friends/relatives/colleagues, 40 per cent of the Government employees have their own knowledge on shopping sites, 33.3 per cent of the respondents are students who are part - time workers have knowledge by the recommendation of the friends/relatives/colleagues, 30.2 per cent of the respondents are students and who are not working have knowledge by the recommendation of the friends/relatives/colleagues and 29.8 per cent of the respondents are private employees and 20.9 per cent of the respondents are engaged with business who have knowledge on their own and

Type of the Family

Family wise distribution of respondents reveal that 29.1 per cent of the respondents belong to the nuclear family and 38.2 per cent of the respondents belong to the joint family have knowledge by the recommendation of the friends/relatives/colleagues.

Monthly Income

Income wise distribution of respondents about knowledge on shopping websites reveals that 35.7 per cent of the respondents belong to the family earning monthly income between Rs.25,000 to Rs.40,000, 33.3 per cent of the respondents belong to the family having monthly income above Rs.70,000 have knowledge by watching advertisement in the social media and networking sites, 32.7 per cent of the respondents belong to the family having monthly income between Rs.55,000 to Rs.70,000, have knowledge by the recommendation of the friends/ relatives/ colleagues, 32.0 per cent of respondents belong to the family who's monthly income is below Rs.25,000 have knowledge by the recommendation of the friends/ relatives/ colleagues and 26.7 per cent of the respondents belong to the family earning monthly income between Rs.40,000 to Rs.55,000.

Chi-Square test has been applied for each of the personal variable, separately and the results are shown in the table given above. It is seen from the above table (4.35) that educational qualification, occupation and monthly income of the family are found to have significant association with the source of knowledge on shopping websites at 5 per cent or 1 per cent level of significance. The calculated Chi-Square values are found to be greater than the table values at the indicated significance levels. Hence, the hypothesis was rejected with respect to education, occupation and monthly income only. The personal factors such as gender, age, marital status and type of family have no significant influence on knowledge on shopping sites.

2. Personal Factors Vs. Impact of Advertisement on shopping Sites

Impact of advertisement on shopping sites was analyzed with the help of personal variables. The distribution of the respondents regarding impact of advertisement on shopping sites amount the different groups of selected personal variable are given below

The relationship between personal variables and impact of advertisement on shopping websites are tested by framing the following hypothesis.

 H_0 – **Hypothesis:** Impact of advertisement on shopping websites have no significant relationship with the personal variables namely, Gender, Age, Marital Status, Educational Qualification, Occupation, Type of the Family and Monthly Income.

Table 4.36 Impact of Advertisement on Shopping Sites

| Variable | Groups | | A | В | | С | | I |) | Total | | V | TV | Significance |
|---------------------------|-------------------------|----|------|-----|------|----|------|-----|------|-------|-----|--------|--------|--------------|
| | | No | % | No | % | No | % | No | % | No | % | | | |
| Gender | Male | 19 | 12.2 | 55 | 35.3 | 27 | 17.3 | 55 | 35.3 | 156 | 100 | 2.750 | 7.815 | NS |
| | Female | 39 | 14.3 | 103 | 37.9 | 32 | 118 | 98 | 36 | 272 | 100 | | | |
| Age | Less than 25 Years | 27 | 11.6 | 82 | 35.3 | 43 | 18.5 | 80 | 34.5 | 232 | 100 | 21.468 | 16.919 | * |
| | 26 -35 Years | 10 | 17.5 | 30 | 52.6 | 3 | 5.3 | 14 | 24.6 | 95 | 100 | | | |
| | 36 – 45 Years | 3 | 8.1 | 11 | 29.7 | 4 | 10.8 | 19 | 51.4 | 57 | 100 | | | |
| | 46 – 55 Years | 4 | 9.1 | 14 | 31.8 | 4 | 9.1 | 22 | 50.0 | 44 | 100 | | | |
| Marital Status | Married | 26 | 12.8 | 86 | 42.4 | 21 | 10.3 | 70 | 34.5 | 203 | 100 | 6.751 | 7.815 | NS |
| | Unmarried | 32 | 14.2 | 72 | 32 | 38 | 16.9 | 83 | 36.9 | 225 | 100 | | | |
| Educational Qualification | Up to School Level | 17 | 17.3 | 36 | 36.7 | 13 | 13.3 | 32 | 32.7 | 98 | 100 | 16.330 | 21.026 | NS |
| | Graduate | 25 | 12.1 | 83 | 40.1 | 24 | 11.6 | 75 | 36.2 | 207 | 100 | | | |
| | Post Gra`duate | 13 | 13.6 | 27 | 30.7 | 18 | 20.5 | 31 | 35.2 | 88 | 100 | | | |
| | Diploma | 2 | 16.7 | 3 | 25 | 4 | 33.3 | 3 | 25 | 12 | 100 | | | |
| | Professional | 2 | 8.7 | 9 | 39.1 | | | 12 | 5.2 | 23 | 100 | | | |
| Occupation | Student and not working | 20 | 15.9 | 34 | 27 | 22 | 17.5 | 50 | 39.7 | 126 | 100 | 30.030 | 28.869 | * |
| | Student and working | 7 | 16.7 | 19 | 45.2 | 9 | 21.4 | 7 | 16.7 | 42 | 100 | | | |
| | Private Employment | 8 | 8.5 | 37 | 39.4 | 11 | 11.7 | 38 | 40.4 | 94 | 100 | | | |
| | Government Employment | 4 | 26.7 | 6 | 40 | | | 5 | 33.3 | 15 | 100 | | | |
| | Business | 10 | 14.9 | 21 | 31.3 | 8 | 11.9 | 28 | 41.8 | 67 | 100 | | | |
| | Professional | | | 9 | 50 | 1 | 5.6 | 8 | 44.4 | 18 | 100 | | | |
| | House Wife | 9 | 13.6 | 32 | 48.5 | 8 | 12.1 | 17 | 25.8 | 66 | 100 | | | |
| Type of the Family | Nuclear Family | 45 | 13.8 | 113 | 34.7 | 54 | 16.6 | 114 | 35 | 326 | 100 | 9.843 | 7.815 | * |
| | Joint Family | 13 | 12.7 | 45 | 44.1 | 5 | 4.9 | 39 | 38.2 | 102 | 100 | | | |
| Monthly Income | Below Rs.25000 | 17 | 13.9 | 41 | 33.6 | 35 | 28.7 | 29 | 23.8 | 122 | 100 | 41.946 | 26.217 | ** |
| | Rs.25000 – Rs.40000 | 17 | 12.1 | 52 | 37.1 | 17 | 12.1 | 54 | 38.6 | 140 | 100 | | | |
| | Rs.40000 - Rs.55000 | 7 | 11.7 | 22 | 36.7 | 3 | 5 | 28 | 46.7 | 60 | 100 | | | |
| | Rs.55000 – Rs.70000 | 7 | 12.7 | 24 | 43.6 | 1 | 1.8 | 23 | 41.8 | 55 | 100 | | | |
| | Above Rs.70000 | 10 | 19.6 | 19 | 37.3 | 3 | 5.9 | 19 | 37.3 | 51 | 100 | | | |

Source: Computed Data

 $A-To\ Make\ Purchase;\ B-Discuss\ with\ others\ to\ Purchase;\ C-Not\ Considered\ for\ the\ Purchase;\ D-Search\ for\ more\ Information$

Gender

Gender wise distribution of respondents about impact of advertisement on shopping sites are given above. Among women 37.9 per cent of the respondents reacted to the advertisement by discussing with others to purchase and 36.0 per cent of the respondents go for more information. Among men 35.3 per cent of the respondents reacted by discussing with others to purchase and 35.3 per cent of the respondents search for more information.

Age

Age wise distribution of the respondents about the impact of advertisement on shopping sites show that 52.6 per cent of the respondents belong to the age group between 36-45 years. They reacted to the advertisement by discussing with others to purchase. 50.0 per cent of the respondents belongs to the age group between 46-55 years search for more information, 38.9 per cent of the respondents belong to the age group between 26-35 years go for more information and 35.3 per cent of the respondents belongs to the age group less than 25 years discussed with others to purchase.

Marital status

Marital status wise distribution of respondents about the impact of advertisement on shopping sites exhibit that 42.4 per cent of the respondents are married and reacted to advertisement by discussing with others to purchase and 36.9 per cent of respondents are unmarried and reacted by searching for more information.

Educational qualification

Educational qualification wise distribution of the respondents about the impact of advertisement on shopping sites depict that 40.1 per cent of graduated respondents reacted to the advertisement by discussing with others to purchase. 36.7 per cent of respondents who had completed up to school level of education and 35.2 per cent of respondents who are post graduated react towards advertisement by searching for more information. 33.3 per cent of the respondents had completed diploma who never considered the advertisement for purchase through online. 52.2 per cent of the respondents are professionals who search for more information.

Occupation

Occupation wise distribution of respondents about impact of advertisement on shopping sites expresses that, 50.0 per cent of professionals and 48.5 per cent of housewives reacted to the advertisement by discussing with others to purchase. 45.2 per cent of the respondents are students who are part time workers reacted to advertisement by discussing with others to purchase and 41.8 per cent of businessmen

reacted to the advertisement by searching for more information 40.4 per cent of private employees search for more information, 40.0 per cent of Government employees discussed with other to purchase and 39.7 per cent of respondents are students who are not working reacted by searching for more information.

Type of the family

Family wise distribution of respondents about the impact of advertisement on shopping sites display that 44.1 per cent of the respondents belong to the joint family who react to advertisement by discussing with others to purchase and 35 per cent of the respondents belong to nuclear family react to advertisement by searching for more information.

Monthly Income of the family

Income wise distribution of the respondents about the impact of advertisement of on shopping reveals that 46.7 per cent of the respondents belong to the family having their monthly income between Rs. 40,000-55,000 reacts to the advertisement by searching for more information, 44.6 per cent of respondents belong to the family having their monthly income between Rs.55,000 -70,000, 38.6 per cent of respondents belong to the family having monthly income between Rs.25,000 - 40,000 and 37.3 per cent of respondents belong to the family having monthly income above Rs.70,000 reacts to the advertisement by discussing with others to purchase, 33.6 per cent of respondents belong to the family earning below Rs.25,000 as their monthly income. They reacted to the advertisement on shopping sites by discussing with others to purchase.

Chi-Square test was applied for each of the personal variable separately and the results are shown in the table given above. It is known from the above table that age, type of family and monthly income of the family are found to have significant association with the impact of advertisement on shopping sites at 5 per cent or 1 per cent level of significance. The calculated Chi-Square values are found to be greater than the table values at the indicated significance levels. Hence, the hypothesis was rejected with respect to age, occupation, type of family and monthly income of the family only. The personal factors such as gender, size of the family and education qualification have no significant association with the impact of advertisement on shopping sites.

3. Personal Profile Vs. Occasion for Purchase

Occasion for purchasing products through online shopping sites are analysed with the help of personal variables. The distribution of the respondents regarding occasion for the purchase of products through online shopping sites among different groups of selected personal variables are given below.

The relationship between personal variables and occasion for purchase of products on shopping websites are tested by framing the following hypothesis.

 H_0 – **Hypothesis:** Occasion for purchase of products on shopping websites have no significant relationship with the personal variables namely, Gender, Age, Marital Status, Educational Qualification, Occupation, Type of the Family and Monthly Income.

Table 4.37 Occasion for Purchase

| Variable | Groups | | A | В | | C | | I |) | To | tal | V | TV | Signi |
|---------------------------|-------------------------|-----|------|----|------|----|------|----|------|-----|-----|--------|--------|---------|
| | | No | % | No | % | No | % | No | % | No | % | | | ficance |
| Gender | Male | 60 | 38.5 | 38 | 24.4 | 49 | 31.4 | 9 | 5.8 | 156 | 100 | 2.686 | 7.815 | NS |
| | Female | 122 | 44.9 | 50 | 18.4 | 84 | 30.9 | 16 | 5.9 | 272 | 100 | | | |
| Age | Less than 25 Years | 97 | 41.8 | 53 | 22.8 | 69 | 29.7 | 13 | 5.6 | 232 | 100 | 3.291 | 16.919 | NS |
| | 26 -35 Years | 41 | 43.2 | 16 | 16.8 | 32 | 33.7 | 6 | 6.3 | 95 | 100 | | | |
| | 36 – 45 Years | 23 | 40.4 | 13 | 22.8 | 18 | 31.6 | 3 | 5.3 | 57 | 100 | | | |
| | 46 – 55 Years | 21 | 47.7 | 6 | 13.6 | 14 | 31.8 | 3 | 6.8 | 44 | 100 | | | |
| Marital Status | Married | 84 | 41.4 | 44 | 21.7 | 64 | 31.5 | 11 | 5.4 | 203 | 100 | 0.495 | 7.815 | NS |
| | Unmarried | 98 | 43.6 | 44 | 19.6 | 69 | 30.7 | 14 | 6.2 | 225 | 100 | | | |
| Educational Qualification | Up to School Level | 34 | 34.7 | 30 | 30.6 | 24 | 24.5 | 10 | 10.2 | 98 | 100 | 30.664 | 26.217 | ** |
| | Graduate | 102 | 49.3 | 27 | 13 | 69 | 33.3 | 9 | 4.3 | 207 | 100 | | | |
| | Post Graduate | 27 | 30.7 | 26 | 29.5 | 30 | 34.1 | 5 | 5.7 | 88 | 100 | | | |
| | Diploma | 5 | 41.7 | 2 | 16.7 | 4 | 33.3 | 1 | 8.3 | 12 | 100 | | | |
| | Professional | 14 | 60.9 | 3 | 3 | 6 | 26.1 | | | 23 | 100 | | | |
| Occupation | Student and not working | 60 | 47.6 | 20 | 15.9 | 40 | 31.7 | 6 | 4.8 | 126 | 100 | 16.449 | 28.869 | NS |
| | Student and working | 17 | 40.5 | 10 | 23.8 | 12 | 28.6 | 3 | 7.1 | 42 | 100 | | | |
| | Private Employment | 34 | 36.2 | 22 | 23.4 | 34 | 36.2 | 4 | 4.3 | 94 | 100 | | | |
| | Government Employment | 7 | 46.7 | 2 | 13.3 | 6 | 40 | | | 15 | 100 | | | |
| | Business | 34 | 50.7 | 13 | 19.4 | 14 | 20.9 | 6 | 9 | 67 | 100 | | | |
| | Professional | 8 | 44.4 | 2 | 11.1 | 7 | 38.9 | 1 | 5.6 | 18 | 100 | | | |
| | House Wife | 22 | 33.3 | 19 | 28.8 | 20 | 30.3 | 5 | 7.6 | 66 | 100 | | | |
| Type of the Family | Nuclear Family | 145 | 44.5 | 71 | 21.8 | 92 | 28.2 | 18 | 5.5 | 326 | 100 | 6.042 | 7.815 | NS |
| | Joint Family | 37 | 36.3 | 17 | 16.7 | 41 | 40.2 | 7 | 6.9 | 102 | 100 | | | |
| Monthly Income | Below Rs.25000 | 47 | 38.5 | 38 | 31.1 | 30 | 24.6 | 7 | 5.7 | 122 | 100 | 34.103 | 26.217 | ** |
| | Rs.25000 – Rs.40000 | 51 | 36.4 | 33 | 23.6 | 46 | 32.9 | 10 | 71 | 140 | 100 | | | |
| | Rs.40000 – Rs.55000 | 29 | 48.3 | 8 | 13.3 | 20 | 33.3 | 3 | 5 | 60 | 100 | | | |
| | Rs.55000 – Rs.70000 | 35 | 63.6 | 6 | 10.9 | 13 | 23.6 | 1 | 1.8 | 55 | 100 | | | |
| | Above Rs.70000 | 20 | 39.2 | 3 | 5.9 | 24 | 47.1 | 4 | 7.8 | 51 | 100 | | | |

Source: Computed Data

A – Whenever Needed; B – Festival Season; C – Special Offers/ Discounts; D – Special Occasions

Gender

Gender wise distribution of respondents about occasion for purchase of products through online shopping is given above. Among women 44.9 per cent of the respondents purchase products through online shopping sites whenever they are in need, 31.4 per cent of the respondents purchase when special offers/discounts are available, 18.4 per cent of the respondents purchase only during festival season and 5.9 per cent of the respondents purchase during some special occasions. Among men 38.5 per cent of the respondents purchase products through shopping sites whenever they are in need, 31.4 per cent of the respondents purchase when special offers/discounts are available, 24.4 per cent of the respondents purchase only during festival season, and 5.8 per cent of the respondents purchase during some special occasions.

Age

Age wise distribution of respondents about occasion for purchase of products through online shopping shows that 47.7 per cent of the respondents belong to the age group between 46 - 55 years purchase products through online whenever they are in need, 43.2 per cent of the respondents belong to the age group between 26 - 35 years, 41.8 per cent of the respondents belongs to the age group below 25 years and 40.4 per cent of the respondents who belongs to the age group between 36 - 45 years.

Marital Status

Marital Status wise distribution of respondents about occasion for purchase of products through online shopping sites depict that 41.4 per cent of married respondents and 43.6 per cent of unmarried respondents purchase products through online shopping sites whenever they are in need.

Educational Qualification

Qualification wise distribution of respondents about occasion for purchase of products through online shopping explains that 60.9 per cent of professional respondents, 49.3 per cent of graduated respondents, 41.7 per cent of diploma holders and 34.7 per cent of respondents who had completed the school level of education purchase products through online whenever they are in need. 34.1 per cent of post graduated respondents purchase when special offers/ discounts are available.

Occupation

Occupation wise distribution of respondents about the occasion for purchase of products through online shopping sites narrates that 50.7 per cent of business persons, 47.6 per cent of the students category who are not working, 46.7 per cent of

Government employees, 44.4 per cent of professional respondents 40.5 per cent of the students category who are part time workers, and 33.3 per cent of housewives will purchase when they are in need only. 36.2 per cent are private employees who purchase when special offers/ discounts are available

Type of the Family

Family wise distribution of respondents about occasion for purchase of products through online shopping sites explains that 40.2 per cent of the respondents belong to the nuclear family purchase whenever they need and 40.2 per cent of the respondents belong to the joint family who purchase products through online when special offers/ discounts are available.

Monthly Income

Income wise distribution of respondents about occasion for purchase of products through online is given above. 63.6 per cent of the respondents belong to the family having Rs.55000 – 70000, 48.3 per cent of the respondents belong to the family whose monthly income is between Rs.40000 to 55000, 38.5 per cent of the respondents belong to the family having their monthly income below Rs.25000, 36.4 per cent of the respondents belong to the family having monthly income between Rs.25000 – 40000, will purchase products when they are in need only. 47.1 per cent of the respondents belong to the family having monthly income above Rs.70000 who purchase only when special offers/ discounts are available.

Chi-Square test was applied for each of the personal variable separately and the results are inferred in the table given above. It is seen from the above table that educational qualification, and monthly income of the family are found to have significant association with occasion for purchase of products on shopping websites at 5 per cent or 1 per cent level of significance. The calculated Chi-Square values are found to be greater than the table values at the indicated significance levels. Hence, the hypothesis was rejected with respect to educational qualification and monthly income of the family only. The personal factors such as age, gender, marital status, occupation and type of the family have no significant relationship with occasion for purchase of products through online shopping.

4. Personal Variables Vs. Amount spent for online purchase:

Amount spent for online purchase was analysed with the help of personal variables. The distribution of the respondents regarding amount spent for online purchase among different group of selected personal variables are given below.

The relationship between personal variables and amount spent on purchase of products through shopping websites are tested by framing the following hypothesis.

H_0 – Hypothesis:

Amount spent on purchase of products through shopping websites have no significant relationship with the personal variables namely, Gender, Age, Marital Status, Educational Qualification, Occupation, Type of the Family and Monthly Income.

Table 4.38 Amount spent on Purchase of Products through Online

| Variable | Groups | | A | | В | | С | | D | | E | | F | Total | | V | TV | Signi |
|--------------------|-------------------------|-----|------|-----|------|----|------|----|-----|----|------|----|-----|-------|-----|--------|--------|---------|
| | _ | No | % | No | % | No | % | No | % | No | % | No | % | No | % | | | ficance |
| Gender | Male | 75 | 48.1 | 44 | 28.2 | 11 | 7.1 | 7 | 4.5 | 15 | 9.6 | 4 | 2.6 | 156 | 100 | 6.467 | 11.070 | NS |
| | Female | 133 | 48.9 | 83 | 30.5 | 30 | 11 | 5 | 1.8 | 16 | 5.9 | 5 | 1.8 | 272 | 100 | | | |
| Age | Less than 25 Years | 120 | 51.7 | 68 | 29.3 | 15 | 6.5 | 7 | 3.0 | 19 | 8.2 | 3 | 1.3 | 232 | 100 | 21.079 | 24.996 | NS |
| | 26 -35 Years | 37 | 38.9 | 33 | 34.7 | 13 | 13.7 | 1 | 1.1 | 6 | 6.3 | 5 | 5.3 | 95 | 100 | | | |
| | 36 – 45 Years | 31 | 54.4 | 15 | 26.3 | 7 | 12.3 | 1 | 1.8 | 2 | 3.5 | 1 | 1.8 | 57 | 100 | | | |
| | 46 – 55 Years | 20 | 45.5 | 11 | 25.0 | 6 | 13.6 | 3 | 6.8 | 4 | 9.1 | | | 44 | 100 | | | |
| Marital Status | Married | 96 | 47.3 | 52 | | 30 | 14.8 | 5 | 2.5 | 13 | 6.4 | 7 | 3.4 | 203 | 100 | 17.033 | 15.086 | ** |
| | Unmarried | 112 | 49.8 | 75 | 33.3 | 11 | 4.9 | 7 | 3.1 | 18 | 8 | 2 | 0.9 | 225 | 100 | | | |
| Educational | Up to School Level | 47 | 48 | 37 | 37.8 | 7 | 7.1 | 1 | 1 | 5 | 5.1 | 1 | 1 | 98 | 100 | 45.640 | 37.556 | ** |
| Qualification | Graduate | 107 | 51.7 | 54 | 26.1 | 19 | 9.2 | 9 | 9.2 | 16 | 7.7 | 2 | 1.0 | 207 | 100 | | | |
| | Post Graduate | 42 | 47.7 | 27 | 30.7 | 5 | 5.7 | 2 | 2.3 | 7 | 8 | 5 | 5.7 | 88 | 100 | | | |
| | Diploma | 7 | 58.3 | | | 2 | 16.7 | | | 2 | 16.7 | 1 | 8.3 | 12 | 100 | | | |
| | Professional | 5 | 21.7 | 9 | 39.1 | 8 | 34.8 | | | 1 | 4.3 | | | 23 | 100 | | | |
| Occupation | Student and not working | 65 | 51.6 | 46 | 36.5 | 6 | 4.8 | 2 | 1.6 | 5 | 4 | 2 | 1.6 | 126 | 100 | 60.749 | 50.892 | ** |
| | Student and working | 17 | 40.5 | 13 | 31 | 2 | 4.8 | 1 | 2.4 | 9 | 21.4 | | | 42 | 100 | | | |
| | Private Employment | 49 | 52.1 | 18 | 19.1 | 10 | 1.6 | 6 | 6.4 | 7 | 7.4 | | 4.3 | 94 | 100 | | | |
| | Government Employment | 4 | 26.7 | 4 | 26.7 | 5 | 33.3 | | | 2 | 13.3 | | | 15 | 100 | | | |
| | Business | 32 | 47.8 | 19 | 28.4 | 7 | 10.4 | 2 | 3 | 7 | 10.4 | | | 67 | 100 | | | |
| | Professional | 6 | 33.3 | 6 | 33.3 | 5 | 27.8 | | | | | 1 | 5.6 | 18 | 100 | | | |
| | House Wife | 35 | 53 | 21 | 31.8 | 6 | 9.1 | 1 | 1.5 | 1 | 1.5 | 2 | 3 | 66 | 100 | | | |
| Type of the Family | Nuclear Family | 164 | 50.3 | 105 | 32.2 | 24 | 7.4 | 9 | 2.8 | 22 | 6.7 | 2 | 0.6 | 326 | 100 | 25.707 | 15.086 | ** |
| | Joint Family | 44 | 43.1 | 22 | 21.6 | 17 | 16.7 | 3 | 2.9 | 9 | 8.8 | 7 | 6.9 | 102 | 100 | | | |
| Monthly Income | Below Rs.25000 | 78 | 63.9 | 28 | 23 | 4 | 3.3 | 2 | 1.6 | 5 | 4.1 | 5 | 4.1 | 122 | 100 | 46.984 | 37.566 | ** |
| | Rs.25000 – Rs.40000 | 73 | 52.1 | 40 | 28.6 | 14 | 10 | 3 | 2.1 | 8 | 5.7 | 2 | 1.4 | 140 | 100 | | | |
| | Rs.40000 – Rs.55000 | 26 | 43.3 | 23 | 38.3 | 7 | 11.7 | 2 | 3.3 | 2 | 3.3 | | | 60 | 100 | | | |
| | Rs.55000 – Rs.70000 | 17 | 30.9 | 18 | 32.7 | 9 | 16.4 | 2 | 3.6 | 8 | 14.5 | 1 | 1.8 | 55 | 100 | | | |
| | Above Rs.70000 | 14 | 27.5 | 18 | 35.3 | 7 | 13.7 | 3 | 5.9 | 8 | 15.7 | 1 | 2 | 51 | 100 | | | |

Source: Computed Data

 $A-Less\ than\ Rs.2000;\ B-Rs.2001\ to\ Rs.4000;\ C-Rs.4001\ to\ Rs.6000;\ D-Rs.6001\ to\ Rs.8000;\ E-Rs.8001\ to\ Rs.10000;\ F-Rs.10001\ \&\ Above$

Gender

Gender wise distribution of respondents about amount spent for online purchase is given above. Among women 48.9 per cent of the respondents spend less than Rs.2000 per month for online shopping, 30.5 per cent of the respondents spend from Rs.2001-4000 per month, 11.1 per cent of the respondents spend from Rs.4001 – 6000 per month, 5.9 per cent of the respondents spend more than Rs.10000 per month for online shopping and 1.8 per cent of the respondents spend Rs.6001 – 8000 per month for online shopping. Among men 48.1 per cent of the respondents spend less than Rs.2000 per month for online shopping, 28.2 per cent of the respondents spend from Rs.8001 – 4000 per month, 9.6 per cent of the respondents spend from Rs.8001 – 10000 per month, 7.1 per cent of the respondents spend Rs.4001 – 6000 per month, 4.5 per cent of the respondents spend Rs.6001 – 8000 per month and 2.6 per cent of the respondents spend more than Rs.10000 per month.

Age

Age wise distribution of respondents about the amount spent on online shopping exhibits that 51.7 per cent of the respondents belong to age group less than 25 years, 54.4 per cent of the respondents belong to the age group between 36-45 years, 45.5 per cent of the respondents belong to the age group between 46-55 years have spent less than Rs.2000 per month for purchase of products through online shopping sites and 38.9 per cent of the respondents belong to the age group between 26-35 years.

Marital Status

Marital status wise distribution of respondents about amount spent for purchase of online products displays that 49.8 per cent of unmarried respondents also spent less than Rs.2000 per month for their online purchase and 47.3 per cent of married respondents spent less than Rs.2000 per month for their online purchase.

Educational Qualification

Qualification wise distribution of respondents about amount spent for purchase of online products. 48 per cent of respondents had completed their school level of education, 51.7 per cent of the graduate respondents, 47.7per cent of post graduate respondents, 58.3 per cent of diploma holders have spent less than Rs.2000 per month for their online purchase. 39.1 per cent of respondents are professionals who spends amount between Rs.2001 – 4000 per month for their online purchase.

Occupation

Occupation wise distribution of respondents about amount spent for online purchase depicts that 53.00per cent of house wives, 52.1 per cent of private employees, 47.8 per cent of business persons, 40.5 per cent of the student category who are part time workers, 5.6 per cent of the student category who are not working have spent less than Rs.2000 per month for their online purchase. 33.33 per cent of respondents are professionals who spends Rs.2001 – 4000 per month for their online purchase. 33.3 per cent of respondents are Government employees who spend amount between Rs.4001 – 6000 per month for online purchase.

Type of the Family

Family wise distribution of the respondents about amount spent for online shopping discusses that 50.3 per cent of the respondents belong to the nuclear family who spends less than Rs.2000 per month and 43.1 per cent of the respondents belong to the joint family who also spends less than Rs.2000 per month for their online purchase.

Monthly Income

Income wise distribution of respondents about amount spent on online purchase narrates that 63.9 per cent of the respondents belong to the family having monthly income below Rs.25000, 52.1 per cent of the respondents belong to the family having their monthly income between Rs.25000 – 40000, 43.3 per cent of the respondents belong to the family having their monthly income between Rs.40000 – 55000 have spent less than Rs.2000 per month for their online purchase. 35.3 per cent of the respondents belong to the family having monthly income above Rs.70000 and 32.7 per cent of the respondents belong to the family having their monthly income between Rs.55000 – 70000 have spent between Rs.2001 – Rs.4000 per month for their online purchase.

Chi-Square test was applied for each of the personal variable separately and the results are shown in the table given above. It is seen from the above table that marital status, educational qualification, occupation, type of the family and monthly income of the family are found to have significant association with amount spent on purchase of products on shopping websites at 5 per cent or 1 per cent level of significance. The calculated Chi-Square values are found to be greater than the table values at the indicated significance levels. Hence, the hypothesis was rejected with respect to marital status, educational qualification, occupation, type of the family and

monthly income of the family only. The personal factors such as age and gender have no significant relationship with amount spent on purchase of products through online shopping.

5. Personal variables Vs. Time taken to make purchase of online products from Kart/Wish list

Time taken for purchasing products from kart/ wish list of online shopping sites was analyzed with the help of personal variables. The distribution of the respondents regarding time taken for purchase from wish list or kart different group of selected personal variables are given below.

H_0 – Hypothesis

Time taken to purchase the online products from kart/ wish list has no significant relationship with the personal variables namely, Gender, Age, Marital Status, Educational Qualification, Occupation, Type of the Family and Monthly Income.

Table 4.39
Time taken to make purchase the online products from kart/ wish list

| Variable | Groups | | A | | В | | C | I | | | otal | V | TV | Signi |
|----------------------------------|-------------------------|-----------------|------|-----|------|----|------|----|------|-----|------|--------|--------|---------|
| | | No | % | No | % | No | % | No | % | No | % | | | ficance |
| Gender | Male | 49 | 31.4 | 49 | 31.4 | 42 | 26.9 | 16 | 10.3 | 156 | 100 | 0.241 | 7.815 | NS |
| | Female | 87 | 32 | 87 | 32 | 74 | 27.2 | 24 | 8.8 | 272 | 100 | | | |
| Age | Less than 25 Years | 74 | 31.9 | 72 | 31 | 66 | 28.4 | 20 | 8.6 | 232 | 100 | 8.720 | 16.919 | NS |
| | 26 -35 Years | 36 | 37.9 | 33 | 34.7 | 18 | 18.9 | 8 | 8.4 | 95 | 100 | | | |
| | 36 – 45 Years | 16 | 28.1 | 19 | 33.3 | 15 | 26.3 | 7 | 12.3 | 57 | 100 | | | |
| | 46 – 55 Years | 10 | 22.7 | 12 | 27.3 | 17 | 38.6 | 5 | 11.4 | 44 | 100 | | | |
| Marital Status | Married | 69 | 34 | 64 | 31.5 | 50 | 24.6 | 20 | 9.9 | 203 | 100 | 1.580 | 7.815 | NS |
| | Unmarried | 67 | 29.8 | 72 | 32 | 66 | 29.3 | 20 | 8.9 | 225 | 100 | | | |
| Educational Qualification | Up to School Level | 47 | 48 | 26 | 26.5 | 18 | 18.4 | 7 | 7.1 | 98 | 100 | 27.436 | 26.217 | ** |
| | Graduate | 54 | 26.1 | 66 | 31.9 | 64 | 30.9 | 23 | 11.1 | 207 | 100 | | | |
| | Post Graduate | 31 | 35.2 | 30 | 34.1 | 22 | 25 | 5 | 5.7 | 88 | 100 | | | |
| | Diploma | 1 | 8.3 | 4 | 33.3 | 4 | 33.3 | 3 | 25 | 12 | 100 | | | |
| | Professional | 3 | 13 | 10 | 43.5 | 8 | 34.8 | 2 | 8.7 | 23 | 100 | | | |
| Occupation | Student and not working | 36 | 28.6 | 44 | 34.9 | 36 | 28.6 | 10 | 7.9 | 126 | 100 | 32.194 | 28.869 | * |
| | Student and working | 15 | 35.7 | 12 | 28.6 | 11 | 26.2 | 4 | 9.5 | 42 | 100 | | | |
| | Private Employment | 30 | 31.9 | 36 | 38.3 | 24 | 25.5 | 4 | 4.3 | 94 | 100 | | | |
| | Government Employment | 7 | 46.7 | 3 | 20 | 5 | 33.3 | | | 15 | 100 | | | |
| | Business | 14 | 20.9 | 20 | 29.9 | 22 | 32.8 | 11 | 16.4 | 67 | 100 | | | |
| | Professional | 3 | 16.7 | 7 | 38.9 | 3 | 16.7 | 5 | 27.8 | 18 | 100 | | | |
| | House Wife | 31 | 47 | 14 | 21.2 | 15 | 22.7 | 6 | 9.1 | 66 | 100 | | | |
| Type of the Family | Nuclear Family | 98 | 30.1 | 108 | 33.1 | 94 | 28.8 | 26 | 8 | 326 | 100 | 6.315 | 7.815 | NS |
| | Joint Family | 38 | 37.3 | 28 | 27.5 | 22 | 21.6 | 14 | 13.7 | 102 | 100 | | | |
| Monthly Income | Below Rs.25000 | 46 | 37.7 | 41 | 3.6 | 25 | 20.5 | 10 | 8.2 | 122 | 100 | 14.303 | 21.026 | NS |
| | Rs.25000 – Rs.40000 | <u>44</u> 21 | 31.4 | 48 | 34.3 | 37 | 26.4 | 11 | 7.9 | 140 | 100 | | | |
| | Rs.40000 – Rs.55000 | | 35 | 18 | 30 | 16 | 26.7 | 5 | 8.3 | 60 | 100 | | | |
| | Rs.55000 – Rs.70000 | 16 | 29.1 | 15 | 27.3 | 18 | 32.7 | 6 | 10.9 | 55 | 100 | | | |
| | Above Rs.70000 | 9 | 17.6 | 14 | 27.5 | 2 | 39.2 | 8 | 15.7 | 51 | 100 | | | |

A- Immediately; B – 2-3 Days; C- Within in a Week; D-Within a Month

Gender

Gender wise distribution of respondents about time taken to make purchase of online products from kart/ wish list is given above. Among women 32 per cent of respondents accept that they purchase immediately, 32 per cent purchase within 2-3 days, 27.2 per cent purchase within a week and 8.8 per cent purchase within a month from the kart/ wish list. Among males 31.4 per cent of respondents accepts that they will purchase immediately, 31.4 per cent purchase within 2-3 days and 26.9 per cent purchase within a week and 10.3 per cent purchase within a month.

Age

Age wise distribution of respondents about time taken to make purchase of online products from kart/ wish list displays that 97.33 per cent belongs to the age group between 36-45 years accepts that they purchase with 2-3 days, 38.6 per cent belongs to the age group between 46-55 years who accept that they purchase within a week, 37.9 per cent belongs to the age group between 26-35 years accepts that they purchase immediately, 31.9 per cent of respondents belong to the age group below 25 years accepted that they purchase products immediately from the online shopping sites.

Marital Status

Marital Status wise distribution of respondents about time taken to make purchase of online products from kart/ wish list expresses that 34.00 per cent of married respondents accept that they purchase immediately from the shopping sites, 32.00 per cent accepts that they purchase within 2-3 days, 29.8 per cent of unmarried respondents accepts that they purchase immediately from the online shopping sites, 29.3 per cent accepts that they purchase within a week, 24.65 per cent responds that they purchase within a week, 9.9 per cent accepts that they will purchase within a month, 8.9 per cent of respondents accepts that they purchase within a month from online shopping sites and 3.5 per cent accepts that they purchase within 2-3 days.

Educational Qualification

Qualification wise distribution of respondents about time taken to make purchase of online products from kart/ wish list is given below. 48.00 per cent of respondents who had completed their school level of education had accepted that they purchase immediately, 43.5 per cent of respondents are professionals who also accepts that they will purchase within a week, 35.2 per cent of respondents are post graduates who accepts that they purchase immediately, 33.3 per cent of respondents

had completed their diploma who accepts that they purchase within a week, 31.9 per cent of respondents are graduates who accepts that they purchase with 2-3 days from kart/ wish list of online shopping sites.

Occupation

Occupation wise distribution of respondents about time taken to make purchase of online products from kart/ wish list expresses that 47 per cent of the respondents are house wives who also accepts that they purchase immediately, 46.7 per cent of the respondents are Government employees who purchase within a week, 38.9 per cent of the respondents are professionals who accepts that they purchase within 2-3 days, 38.3 per cent of the respondents are private employees who responds that they will purchase within 2-3 days, 35.7 per cent of the respondents are students and part time workers accepts that they will purchase immediately, 34.9 per cent of the respondents are students and not working responds that they purchase within 2-3 days from the online shopping sites and 32.8 per cent of the respondents are business persons who also accepts that will purchase within a week from kart/ wish list of online shopping sites.

Type of the Family

Family distribution of respondents about time taken to make purchase of online products from kart/ wish list depicts that 37.3 per cent of respondents belongs to the joint family who purchase immediately from the shopping sites, 33.1 per cent accepts that they purchase within 2-3 days, 30.1 per cent of the respondents belongs to the nuclear family purchase immediately from the shopping sites, 28.8 per cent accepts that they purchase within a week, 27.5 per cent accepts that they will purchase within 2-3 days, 21.6 per cent accepts that they purchase within a week 13.7 per cent accepts that they purchase within a month and 8.00 per cent responds that they purchase within a month from the kart/ wish list of online shopping sites.

Monthly Income

Income wise distribution of respondents about time taken to make purchase of online products from kart/ wish list reveals that 37.7 per cent of the respondents belong to the family having monthly income below Rs.25000 had responded that they purchase immediately, 36.2 per cent of the respondents belong to the family having monthly income above Rs.70000 had responded that they purchase within a week, 35.00 per cent of the respondents belong to the family having monthly income between Rs.40000 – 55000 had responded that they purchase immediately, 34.3 per

cent of the respondents belong the family having monthly income between Rs.25000-40000 had responded that they purchase within 2-3 days, 32.7 per cent of the respondents belong to the family having monthly income between Rs.55000 – 70000.

Chi-Square Test was applied for each of the personal variable separately and the results are shown in the table given above. It is seen from the above table that, educational qualification and occupation are found to have significant association with time taken to purchase online from kart/ wish list at 5 per cent or 1 per cent level of significance. The calculated Chi-Square values are found to be greater than the table values at the indicated significance levels. Hence, the hypothesis was rejected with respect to educational qualification and occupation of the respondents. The personal factors such as age, gender, type of the family and monthly income of the family have no significant influence with time taken to purchase online from kart/ wish list.

FACTOR ANALYSIS

Factor Analysis of perception regarding online purchase

The purpose of factor analysis in general is to find a method of reducing the number of original variables in to a smaller set of factors (dimensions) with minimum loss of information. That is, the factor analysis tries to identify and define the latent dimensions in the original variables. The factor analysis method is applied in this study to find out the latent factors in the set of statements relating to the perception of respondents regarding online purchase.

Factor analysis is usually arrived at in the following stages

- 1. In the first step, the correlation matrix is computed for all variables (statements). The variables which do not have correlations with other variables can be identified from the correlation matrix. The factor model to be derived is appropriate for the data as well the variables will also be checked.
- 2. Next step is the method of factor extraction. That is, the number of factors required to represent the data without loss of much information and the method of calculation are also decided. At this step, how well the chosen model fits the data is also ascertained.
- 3. In the third step, rotation of factor matrix done to make the factors derived are more meaningful.
- 4. Finally, scores for each factor can be computed for each case. These scores are then used for further analysis.

The scale containing perception regarding online purchase consisted of 22 items which measure the level of agreement/disagreement of the respondents on the number of statements relating to the scale.

Step 1

Correlation matrix for the variables, statement 1 to statement 22, was created to analyze initially for possible inclusion of variables (statements) in factor analysis. Each statement is considered as one variable with values ranging from 1 to 5.

Since the aim of the factor analysis is to obtain 'factors' that explain these correlations, the variables must be related to each other in order to have an appropriate factor model. By examining the correlation matrix, the extent of correlations between the variables can be identified. Normally, a correlation value of + 0.30 is taken as enough to explain the correlation among variables. For this study, all the variables from 1 to 22 have been retained for further analysis. Further, two tests applied to the correlation matrix obtained to find whether the relationship between the variables is significant or not.

Table 4.40 KMO and Bartlett's Test

| Kaiser-Meyer-Olkin Measure of Sampling Adequacy. 0.837 | | | | | | | | |
|--|--------------------|----------|--|--|--|--|--|--|
| | Approx. Chi-Square | 1689.610 | | | | | | |
| Bartlett's Test of Sphericity | Df | 231 | | | | | | |
| | Sig. | ** | | | | | | |

^{** -} Significant at 1per cent level (P<0.01)

Among the two test values given above, Bartlett's test of sphericity is used to test whether the correlation matrix is an identity matrix. That is, to test whether all the diagonal terms in the matrix are 1 and the off-diagonal terms in the matrix are 0. it is used to test whether the correlations between all the variables is 0. The table shows the test value as 1689.610 and the significance level is less than 0.01 (P<0.01) It is seen that, the significance level associated with the test statistic is less than 0.01, and it appears that the correlation matrix is not an identity matrix. That is the variables have correlations among themselves.

Another test is called KMO (Kaiser-Meyer-Olkin) measure of sampling adequacy. This test value is found out using the correlations and partial correlations of the variables. If the test value, or KMO measure is closer to 1, then it is good to use factor analysis. If KMO is closer to 0, then the factor analysis is not a good idea for the variables and data. The value of test statistic is given above as 0.837 which means

the factor analysis for the selected variables is found to be more appropriate to the data.

Step 2

In this stage, the method of factor extraction is determined. Principal Components Analysis (PCA) is a method used to extract factors. PCA involves in transforming a set of correlated variables into a set of uncorrelated dimensions (here factors) so that the factors are unrelated and the variables selected for each factor are related. PCA is used in this study to extract the number of factors required to represent the data.

To extract consecutive factors, they account for less and less variability. The decision of when to stop extracting factors basically depends on when there is only very little "random" variability left. The results obtained from principal components analysis are given below.

To start with, in the correlation matrix, the diagonal elements are the variances of all variables which are equal to 1.0. Therefore, the total variance in that matrix is equal to the number of variables. For this study, there are 22 variables (items) each with a variance of 1 and the total variability that can potentially be extracted is equal to 22 times 1. The variance accounted by successive factors are summarized as follows:

From the table given below, in the second column (Initial *Eigen values*), from the column titled *'Variance'*, to find the variance on the new factors that were successively extracted. In the third column, these values are expressed as a percent of the total variance. It is seen that factor 1 accounts for about 22 percent of the total variance, factor 2 about 8 percent, and so on. As expected, the sum of the eigen values is equal to the number of variables. The third column contains the cumulative variance extracted. The variances extracted by the factors are called the *eigen values*.

It can be seen from the below table that how much variance each successive factor extracted and we can decide about the number of factors to be retained. The factors with Eigen values greater than 1 can only retained. This is because, any factor which extracts at least one equivalent to one original variable is retained and others are dropped. This criterion is normally being used and is used in this study also. In table shown above, using this criterion, it has retained 6 factors (principal components).

Table 4.41
Total Variance Explained

| | | | otai varian | | | Squared Loadings |
|-----------|-------|----------------------------|-------------|-------|-------------------------|---------------------|
| |] | Initial Eiger | values | | (Rotat | _ |
| Component | Total | per cent of Variance | ce per cent | | per cent of Variance | Cumulative per cent |
| 1 | 4.759 | 21.633 | 21.633 | 2.601 | 11.823 | 11.823 |
| 2 | 1.729 | 7.859 | 29.491 | 2.085 | 9.479 | 21.302 |
| 3 | 1.276 | 5.799 | 35.290 | 1.804 | 8.201 | 29.503 |
| 4 | 1.199 | 5.449 | 40.739 | 1.658 | 7.537 | 37.040 |
| 5 | 1.121 | 5.096 | 45.835 | 1.581 | 7.184 | 44.224 |
| 6 | 1.043 | 4.742 | 50.577 | 1.398 | 6.353 | 50.577 |
| 7 | .984 | 4.474 | 55.052 | | | |
| 8 | .919 | 4.179 | 59.230 | | | |
| 9 | .901 | 4.097 | 63.327 | | | |
| 10 | .836 | 3.801 | 67.128 | | | |
| 11 | .807 | 3.668 | 70.796 | | | |
| 12 | .772 | 3.511 | 74.307 | | | |
| 13 | .740 | 3.362 | 77.669 | | | |
| 14 | .683 | 3.103 | 80.772 | | | |
| 15 | .669 | 3.041 | 83.813 | | | |
| 16 | .617 | 2.802 | 86.615 | | | |
| 17 | .545 | 2.477 | 89.092 | | | |
| 18 | .538 | 2.444 | 91.535 | | | |
| 19 | .526 | 2.390 | 93.925 | | | |
| 20 | .467 | 2.124 | 96.050 | | | |
| 21 | .443 | 2.013 | 98.062 | | | |
| 22 | .426 | 1.938 | 100.000 | | | |

Table 4.42 Component Matrix

| | | | Comp | onent | , | |
|--|------|------|------|-------|------|------|
| | 1 | 2 | 3 | 4 | 5 | 6 |
| There is no embarrassment for me if do not buy | .584 | 162 | 277 | 107 | .191 | 026 |
| There is no time limit for purchase of products through online(24 X 7) | .564 | 337 | 153 | 109 | 111 | .204 |
| I can get immediate response to my queries | .539 | .045 | 309 | .174 | 035 | .374 |
| I can get user reviews for products available in the shopping sites | .536 | 071 | .189 | 285 | .118 | .089 |
| I can get detailed product information from the shopping sites itself | .528 | .041 | .003 | 221 | .278 | 279 |
| It is secured to make payment through Online | .527 | .318 | 097 | 045 | 423 | 302 |
| I can get more care with individual attention | .527 | 093 | 064 | .221 | .378 | 256 |
| I can purchase from anywhere, at any point, and from any vendor located domestically | .513 | 010 | 344 | .333 | 113 | .072 |
| It is convenient for me to purchase online | .510 | 210 | .253 | 061 | 205 | .011 |
| I can shop from my home itself | .493 | 374 | 349 | 030 | 087 | 069 |
| I can customize the products based on requirements | .485 | .005 | .039 | .372 | .209 | 118 |
| I can track my account status and order status of products | .472 | .310 | .265 | 281 | .111 | 242 |
| Online Shopping saves me from Market crowd | .453 | 384 | .401 | .048 | 058 | 132 |
| It is easy to make payment for purchase of products through Shopping sites | .441 | .413 | 081 | .048 | 217 | 137 |
| I can avail exclusive guarantee given by the online shopping sites | .395 | .480 | .012 | .171 | 201 | .253 |
| I Purchase products through Online according to my Interest | .417 | 476 | 131 | 176 | .047 | .039 |
| I can get Easy return/refund/replacement | .433 | .444 | 175 | 271 | 141 | 115 |
| I have Shopping Privacy in online shopping | .392 | 173 | .480 | .250 | 284 | 108 |
| Due to Busy Schedule I prefer online Shopping | .275 | 124 | .346 | .200 | 231 | .200 |
| I can control my expenses in a better way | .335 | .205 | .195 | 440 | .205 | .321 |
| It has very Less Procedure to Place an order | .164 | .268 | .096 | .435 | .421 | 138 |
| Due to availability of more products Broader selection is possible | .424 | .244 | .205 | .091 | .272 | .497 |

Extraction Method: Principal Component Analysis. 6 components extracted.

The table shown above gives the Component Matrix or Factor Matrix where PCA extracted six factors. These are all coefficients used to express a standardized variable in terms of the factors. These coefficients are called factor loadings, since they indicate how much weight is assigned to each factor. Factors with large coefficients (in absolute value) for a variable are closely related to that variable. For example, Factor 1 is the factor with largest loading (0.584) for the item, namely "There is no embarrassment for me if do not buy". These are all the correlations between the factors and the variables, Hence, the correlation between this Statement and Factor 1 is 0.584. Thus, the factor matrix is obtained. These are the initially obtained estimates of factors.

Step 3

Normally, the factor matrix (Component Matrix) obtained using the PCA extraction will show the relationship between the factors and the variables. But it will be difficult to obtain any meaningful factors out of this matrix. Seldom variables and factors appear to be correlated in any interpretable pattern. Most of the factors are correlated with many variables. Since the idea of factor analysis is to identify the factors that meaningfully summarize the sets of closely related variables, the Rotation phase of the factor analysis is attempted to transfer initial matrix into one that is easier to interpret. It is called the rotation phase of the factor matrix. There are several methods available for rotating factor matrix. The one used in this analysis is Varimax Rotation, the most commonly used method, which attempts to minimize the number of variables that have high loadings on a factor. This should enhance the interpretability of the factors. The Rotated Factor Matrix (Table titled Rotated Component Matrix) using Varimax rotation is given in Table 4 where each factor identifies itself with a few set of variables. The variables which identify with each of the factors are sorted in the decreasing order and are highlighted against each column and row.

Table 4.43
Rotated Component Matrix

| | | | Comp | onent | | |
|--|------|------|------|-------|------|------|
| | 1 | 2 | 3 | 4 | 5 | 6 |
| I can shop from my home itself | .694 | .132 | .096 | 070 | .059 | 004 |
| There is no time limit for purchase of products through online(24 X 7) | .633 | .064 | .234 | .139 | 062 | .194 |
| I Purchase products through Online according to my Interest | .625 | 094 | .166 | .146 | 004 | 060 |
| There is no embarrassment for me if do not buy | .600 | .150 | 023 | .215 | .243 | .066 |
| I can purchase from anywhere, at any point, and from any vendor located domestically | .432 | .277 | .076 | 210 | .245 | .370 |
| It is secured to make payment through Online | .160 | .773 | .190 | 005 | .033 | .012 |
| I can get Easy return/refund/replacement | .119 | .643 | 119 | .271 | .000 | .085 |
| It is easy to make payment for purchase of products through Shopping sites | .037 | .617 | .071 | .053 | .139 | .175 |
| I have Shopping Privacy in online shopping | .027 | .128 | .731 | 024 | .130 | .014 |
| Online Shopping saves me from Market crowd | .264 | 032 | .630 | .152 | .163 | 136 |
| Due to Busy Schedule I prefer online Shopping | .021 | 009 | .532 | .015 | 018 | .244 |
| It is convenient for me to purchase online | .294 | .154 | .516 | .190 | 010 | .035 |
| I can control my expenses in a better way | .055 | .070 | .000 | .689 | 079 | .209 |
| I can track my account status and order status of products | 013 | .426 | .157 | .518 | .221 | 124 |
| I can get user reviews for products available in the shopping sites | .303 | .106 | .245 | .509 | .070 | .052 |
| I can get detailed product information from the shopping sites itself | .309 | .265 | .030 | .406 | .348 | 177 |
| It has very Less Procedure to Place an order | 189 | .023 | 023 | .014 | .660 | .145 |
| I can get more care with individual attention | .352 | .088 | .093 | .106 | .628 | 027 |
| I can customize the products based on requirements | .193 | .118 | .219 | .006 | .555 | .159 |
| Due to availability of more products Broader selection is possible | 003 | 030 | .124 | .444 | .229 | .587 |
| I can get immediate response to my queries | .434 | .180 | .016 | .029 | .114 | .570 |
| I can avail exclusive guarantee given by the online shopping sites | 085 | .446 | .110 | .095 | .070 | .537 |

Extraction Method: Principal Component Analysis.

Rotation Method: Varimax with Kaiser Normalization.

Rotation converged in 15 iterations.

Step 4

The factor score coefficients can be calculated for all the variables from the factor results arrived above, (since each factor is a linear combination of all variables) which are then used to calculate the factor scores for each individual. Since PCA was used in extraction of initial factors, all methods result in estimating same factor score coefficients. However, for the present study, original values of the variables are kept for further analysis and factor scores are obtained by adding the actual values (ratings given by the respondents) of the respective variables for that particular factor, for each respondent.

Conclusion

Thus, the 22 variables in the factor analysis study data are converted to 6 factor model and each factor may be identified with the corresponding variables as follows:

Table 4.44
Factors identified

| Statements | Factors | Factor Names | |
|--|----------------|---------------------|--|
| I can shop from my home itself | | | |
| There is no time limit for purchase of products through online(24 X 7) | | | |
| I Purchase products through Online according to my Interest | Factor 1 | Shopping | |
| There is no embarrassment for me if do not buy | Factor | convenience | |
| I can purchase from anywhere, at any point, and from any vendo | r | | |
| located domestically | | | |
| It is secured to make payment through Online | | Secured and | |
| I can get Easy return/refund/replacement | Factor 2 | easy | |
| It is easy to make payment for purchase of products through Shopping | Factor 2 | transaction | |
| sites | | ti ansaction | |
| I have Shopping Privacy in online shopping | | | |
| Online Shopping saves me from Market crowd | Factor 3 | Time saving | |
| Due to Busy Schedule I prefer online Shopping | Tactor 3 | Time saving | |
| It is convenient for me to purchase online | | | |
| I can control my expenses in a better way | | | |
| I can track my account status and order status of products | Factor 4 | Selective | |
| I can get user reviews for products available in the shopping sites | racioi 4 | purchase | |
| I can get detailed product information from the shopping sites itself | | | |
| It has very Less Procedure to Place an order | | Hassle free | |
| I can get more care with individual attention | Factor 5 | purchase | |
| I can customize the products based on requirements | | purchase | |
| Due to availability of more products Broader selection is possible | | 6 Product detailing | |
| I can get immediate response to my queries | Factor 6 | | |
| I can avail exclusive guarantee given by the online shopping sites | | uctaning | |

Analysis of factors relating to perception towards online purchase Multivariate Analysis of Variance (MANOVA)

Multivariate Analysis of Variance (MANOVA) is another type of ANOVA Procedure. In the normal One – Way ANOVA, the dependent variable is compared among the groups of Independent Variable. However, in MANOVA the number of dependent variables will be more than one. In the usual ANOVA, a single F-Test value is found out, but, in MANOVA several test statistics namely Pillai's Trace, Wilk's Lambda, Hotelling's Trace and Roy's Largest roots are available when testing for the significant differences among the columns of group means for the independent variables, the approximations of F-Tests for these test statistics are follows. Since several alternative statistical tests are available (as described above), the selection of the particular test to be used is generally depending on the number of hypothesis degrees of freedom.

When the hypothesis degrees of freedom is 1, all the four tests mentioned above will give identical results. When the hypothesis degrees of freedom is more than 1, the four statistics will also usually give the same result. In the perfect study also the various MANOVA tests gave similar results. MANOVA technique is used in this study for the analysis of factors relating to perception towards online purchase.

The six factors arrived at using the factor analysis are shopping convenience, secured and easy transaction, time saving, selective purchase, hassle free purchase and product detailing. The factor scores were found out by adding the ratings given by the respondents for the items coming under each factor. Before conducting MANOVA, the correlations between all the six factors are found out to understand the interrelationships between the factors.

Table 4.45 Correlations between Factors Relating to Purchase towards Online Purchase

| | Shopping convenience | Secured and easy transaction | Time saving | Selective purchase | Hassle free purchase | Product detailing |
|------------------------------|----------------------|------------------------------|-------------|--------------------|----------------------|-------------------|
| Shopping convenience | 1 | .319** | .407** | .338** | .337** | .446** |
| Secured and easy transaction | | 1 | .258** | .375** | .304** | |
| Time saving | | | 1 | .316** | .279** | .288** |
| Selective purchase | | | | 1 | .264** | .437** |
| Hassle free purchase | | | | | 1 | .371** |
| Product detailing | | | | | | 1 |

^{**.} Correlation is significant at the 0.01 level.

The correlations between the factors have moderate degree of correlation which are found to be significant at 1 per cent level. Since the factors are moderately correlated, MANOVA can be proceeded further. MANOVA has been applied by taking the 6 factors as dependent variables and selected personal and purchase related variables as independent variables.

Perception towards Online Purchase Vs. Gender

The 6 perception factors are simultaneously compared between gender groups. The mean scores comparing between men and women respondents are given in the following table.

Table 4.46
Perception towards Online Purchase by Gender

| | Gender | | | | | | | | | | | | | |
|------------------------------|--------|------|-----|-------|-------|-----|-------|----------|--------------|--|--|--|--|--|
| Actors | Male | | | F | emale | 9 | | | | | | | | |
| | Mean | S.D | No. | Mean | S.D | No. | V | F- Ratio | Significance | | | | | |
| Shopping convenience | 18.97 | 2.87 | 156 | 19.69 | 3.12 | 272 | 0.967 | 2.373 | * | | | | | |
| Secured and easy transaction | 14.17 | 2.69 | 156 | 14.32 | 2.52 | 272 | | | | | | | | |
| Time saving | 14.74 | 2.26 | 156 | 15.07 | 2.44 | 272 | | | | | | | | |
| Selective purchase | 11.00 | 1.60 | 156 | 11.25 | 1.77 | 272 | | | | | | | | |
| Hassle free purchase | 11.58 | 1.61 | 156 | 11.96 | 1.77 | 272 | | | | | | | | |
| Product detailing | 10.93 | 1.72 | 156 | 10.84 | 1.86 | 272 | ` | | | | | | | |

Source: Computed Data

The table 4.44 shows that the mean scores of shopping convenience for women respondents is 19.69 which is higher than the mean score of men respondents (18.97). Similarly, it is seen that for other factors namely secured and easy transaction, time saving, selective purchase and hassle free purchase, product detailing, the mean scores of women are higher than men.

The differences between the gender groups on these six factors are tested by framing the following hypothesis:

 $\mathbf{H_0}$ Hypothesis – The perception factors namely shopping convenience, secured and easy transaction, time saving, selective purchase, hassle free purchase and product detailing have no significant difference among men and respondents.

The above hypothesis was tested with the help of MANOVA. The test statistics Wilks Lambda and the corresponding approximate F value are shown above. The F value (2.373) is found to be significant at 5per cent level. (Table Value: 2.120)

In the MANOVA table, since the F value for gender is significant and the null hypothesis stated above is rejected.

The follow up of MANOVA table is given below, since MANOVA gave significant result. In the following table, each factor is tested for significance difference among gender groups using ordinary One – Way ANOVA. This test is conducted only if MANOVA gives significant result.

Tests of Between-Subjects Effects

| Source | Dependent Variable | Sum of Squares | df | Mean Square | F | Sig. |
|---------|------------------------------|-------------------|-----|----------------|-------|------|
| | Shopping convenience | 51.330 | 1 | 51.330 | 5.596 | * |
| | Secured and easy transaction | 2.030 | 1 | 2.030 | .304 | Ns |
| Between | Time saving | 11.216 | 1 | 11.216 | 1.984 | Ns |
| Gender | Selective purchase | 6.196 | 1 | 6.196 | 2.127 | Ns |
| | Hassle free purchase | 13.760 | 1 | 13.760 | 4.707 | * |
| | Product detailing | .826 | 1 | .826 | .251 | Ns |
| | Shopping convenience | 3907.277 | 426 | 9.172 | | |
| | Secured and easy transaction | 2843.136 | 426 | 6.674 | | |
| Error | Time saving | 2408.754 | 426 | 5.654 | | |
| EITOI | Selective purchase | 1241.000 | 426 | 2.913 | | |
| | Hassle free purchase | 1245.387 | 426 | 2.923 | | |
| | Product detailing | 1401.107 | 426 | 3.289 | | |
| | Shopping convenience | 3958.607 | 427 | | | |
| | Secured and easy transaction | 2845.166 | 427 | | | |
| Total | Time saving | 2419.970 | 427 | | | |
| 10tai | Selective purchase | 1247.196 | 427 | | | |
| | Hassle free purchase | 1259.147 | 427 | | | |
| | Product detailing | 1401.932 | 427 | | | |

It is seen from the above table that the factors shopping convenience and selective purchase are significantly different between gender groups. The other four factors do not differ significantly between men and women respondents.

Perception towards Online Purchase Vs. Age

The 6 perception factors are simultaneously compared between Age groups. The mean scores comparing between different age groups of respondents are given in the following table.

Table 4.47
Perception towards Online Purchase by Age

| | | | | | | | | Aş | ge | | | | | | |
|------------------------------|---------------------|------|-----|-------------|------|-------------|-------|------|-------------|-------|---------------|-----|--------------|---------|-------|
| Factors | Less than 25 Yrs | | | 26 | 25 V | · · · · · | 26 | 45 X | · • • | 16 | <i>EE 3</i> 7 | ••• | \mathbf{v} | F | Signi |
| ractors | | | | 26 – 35 Yrs | | 36 – 45 Yrs | | | 46 – 55 Yrs | | | | Ratio | ficance | |
| | Mean | S.D | No. | Mean | S.D | No. | Mean | S.D | No. | Mean | S.D | No | 0.930 | 1.709 | * |
| Shopping convenience | 19.44 | 2.98 | 232 | 19.05 | 3.28 | 95 | 19.30 | 2.81 | 57 | 20.30 | 3.05 | 44 | | | |
| Secured and easy transaction | 14.31 | 2.47 | 232 | 13.96 | 2.74 | 95 | 14.07 | 2.58 | 57 | 14.93 | 2.75 | 44 | | | |
| Time saving | 14.81 | 2.31 | 232 | 15.45 | 2.46 | 95 | 14.70 | 2.34 | 57 | 14.93 | 2.56 | 44 | | | |
| Selective purchase | 11.13 | 1.80 | 232 | 11.22 | 1.64 | 95 | 10.95 | 1.34 | 57 | 11.43 | 1.81 | 44 | | | |
| Hassle free purchase | 11.82 | 1.78 | 232 | 11.69 | 1.89 | 95 | 11.95 | 1.33 | 57 | 11.93 | 1.48 | 44 | | | |
| Product detailing | 10.71 | 1.68 | 232 | 11.01 | 1.98 | 95 | 11.09 | 1.90 | 57 | 11.16 | 1.95 | 44 | | | |

Source: Computed Data

The table 4.47 exhibits that the mean scores of shopping convenience for the respondents who come under the age group between 46 - 55 years is 20.30 which is higher than the mean scores of all other age groups such as Less than 25 years, 26-35 Years and 36-45 Years. Similarly, it is seen that for other factors such as secured and easy transaction, time saving, selective purchase and hassle free purchase, product detailing the mean scores of the age group 46-55 years is higher than the mean scores of all other age groups.

The differences between the age groups on these six factors are tested by framing the following hypothesis.

 $\mathbf{H_0}$ Hypothesis – The perception factors namely shopping convenience, secured and easy transaction, time saving, selective purchase, hassle free purchase and product detailing have no significant difference among different age groups of respondents.

The above hypothesis have been tested with the help of MANOVA. The test statistics Wilk's Lambda and the corresponding approximate F value is shown in the table. The F value (2.373) is found to be significant at 5per cent or 1per cent level. (Table Value: 1.613)

In the MANOVA table, since the F value for age is significant and hence, the null hypothesis stated above is rejected.

The follow up of MANOVA table is given below, since MANOVA gave significant result. In the following table, each factor is tested for significance difference among age groups using ordinary One- Way ANOVA. This test is conducted only if MANOVA gives significant result.

Tests of Between-Subjects Effects

| Source | Dependent Variable | Sum of Squares | df | Mean Square | F | Sig. | Table Value |
|-----------|------------------------------|-------------------|-----|----------------|-------|------|----------------|
| | Shopping convenience | 47.510 | 3 | 15.837 | 1.717 | Ns | 2.626 |
| | Secured and easy transaction | 31.164 | 3 | 10.388 | 1.565 | Ns | 2.626 |
| Between | Time saving | 32.052 | 3 | 10.684 | 1.897 | Ns | 2.626 |
| Age | Selective purchase | 6.343 | 3 | 2.114 | .722 | Ns | 2.626 |
| | Hassle free purchase | 2.966 | 3 | .989 | .334 | Ns | 2.626 |
| | Product detailing | 14.426 | 3 | 4.809 | 1.469 | Ns | 2.626 |
| | Shopping convenience | 3911.097 | 424 | 9.224 | | | |
| | Secured and easy transaction | 2814.002 | 424 | 6.637 | | | |
| T | Time saving | 2387.917 | 424 | 5.632 | | | |
| Error | Selective purchase | 1240.853 | 424 | 2.927 | | | |
| | Hassle free purchase | 1256.181 | 424 | 2.963 | | | |
| | Product detailing | 1387.506 | 424 | 3.272 | | | |
| | Shopping convenience | 3958.607 | 427 | | | | |
| | Secured and easy transaction | 2845.166 | 427 | | | | |
| Corrected | Time saving | 2419.970 | 427 | | | | |
| Total | Selective purchase | 1247.196 | 427 | | | | |
| | Hassle free purchase | 1259.147 | 427 | | | | |
| | Product detailing | 1401.932 | 427 | | | | |

It is noted from the above table that the factors shopping convenience and selective purchase are significantly different between age groups. The other four factors do not differ significantly between the different age groups of the respondents

Perception towards Online Purchase Vs. Marital Status

The 6 perception factors are simultaneously compared between the variables in Marital Status. The mean scores comparing between different variables in Marital Status of respondents are given in the following table.

Table 4.48
Perception towards Online Purchase by Marital Status

| | | Marital Status | | | | | | | | | | | |
|------------------------------|-------|----------------|-----|-------|-------|-----|-------|---------|--------------|--|--|--|--|
| | M | arriec | ı | Unr | narri | ed | V | F Ratio | Significance | | | | |
| | Mean | S.D | No. | Mean | S.D | No. | 0.975 | 1.785 | Ns | | | | |
| Shopping convenience | 19.37 | 3.00 | 203 | 19.48 | 3.09 | 225 | | | | | | | |
| Secured and easy transaction | 14.27 | 2.70 | 203 | 14.26 | 2.48 | 225 | | | | | | | |
| Time saving | 14.97 | 2.41 | 203 | 14.94 | 2.36 | 225 | | | | | | | |
| Selective purchase | 11.11 | 1.62 | 203 | 11.20 | 1.79 | 225 | | | | | | | |
| Hassle free purchase | 11.94 | 1.53 | 203 | 11.72 | 1.87 | 225 | | | | | | | |
| Product detailing | 11.07 | 1.90 | 203 | 10.69 | 1.71 | 225 | | | | | | | |

The table 4.48 depicts that the mean scores of shopping convenience for the respondents who are unmarried is 19.48 which is higher than the mean scores of married respondents (19.37). The mean scores of Secured and Easy transaction for respondents who are married is 14.27 which slightly higher than the mean scores of unmarried respondents (14.26). Similarly, it is seen that for other factors such as secured and easy transaction, time saving, selective purchase, hassle free purchase and product detailing, the mean scores of the unmarried group is higher than the mean scores of married group.

The differences between the marital statuses of the respondents on these six factors are tested by framing the following hypothesis:

H₀ Hypothesis – The perception factors namely shopping convenience, secured and easy transaction, time saving, selective purchase, hassle free purchase and product detailing have no significant difference among married and unmarried respondents.

The above hypothesis was tested with the help of MANOVA. The test statistics Wilk's Lambda and the corresponding approximate F value is shown in the table. The F value (1.785) is found to be significant at 5per cent level. (Table Value: 0.975)

In the MANOVA table, since the F value for marital status is not significant and hence, the null hypothesis stated above is accepted.

Perception towards Online Purchase Vs. Educational Qualification

The 6 perception factors are simultaneously compared between the variables in Educational Qualification. The mean scores comparing between different variables in Educational Qualification of respondents are given in the following table.

Table 4.49
Perception towards Online Purchase by Educational Qualification

| | | | | | | |] | Educat | ional | Qualific | ation | | | | | | | |
|------------------------------|---------|---------|-------|-------|---------|-----|-------|--------|-------|----------|-------|----|-------|--------|----|-------|---------|------------------|
| | Up to S | chool I | Level | Gı | raduate | | Post | Gradu | ate | Di | ploma | | Prof | ession | al | V | F Ratio | Signi ficance |
| | Mean | S.D | No | Mean | S.D | No. | Mean | S.D | No | Mean | S.D | No | Mean | S.D | No | 0.958 | 0.760 | Ns |
| Shopping convenience | 19.17 | 2.84 | 98 | 19.67 | 3.06 | 207 | 18.99 | 3.00 | 88 | 19.58 | 2.97 | 12 | 19.91 | 3.86 | 23 | | | |
| Secured and easy transaction | 14.63 | 2.37 | 98 | 14.22 | 2.57 | 207 | 14.11 | 2.77 | 88 | 14.00 | 2.41 | 12 | 13.83 | 2.93 | 23 | | | |
| Time saving | 14.81 | 2.29 | 98 | 15.00 | 2.45 | 207 | 15.13 | 2.37 | 88 | 14.42 | 2.19 | 12 | 14.74 | 2.43 | 23 | | | |
| Selective purchase | 11.16 | 1.65 | 98 | 11.21 | 1.79 | 207 | 10.99 | 1.66 | 88 | 11.25 | 1.76 | 12 | 11.26 | 1.45 | 23 | | | |
| Hassle free purchase | 11.92 | 1.45 | 98 | 11.90 | 1.85 | 207 | 11.51 | 1.76 | 88 | 12.08 | 1.31 | 12 | 11.70 | 1.58 | 23 | | | |
| Product detailing | 10.86 | 1.55 | 98 | 10.90 | 1.86 | 207 | 10.82 | 1.97 | 88 | 11.00 | 1.91 | 12 | 10.78 | 1.86 | 23 | | | |

The table 4.49 depicts that the mean scores of shopping convenience for the respondents who are professionally qualified is 19.91 which is higher than the mean scores of other educational qualifications, such as school level educated, graduated, post graduated, diploma holder. The mean scores of secured and easy transaction for respondents who had completed their school level of education is 14.63 which is higher than the mean scores of other qualified respondents. The mean scores of time saving for respondents who graduated is 15.13 is higher than the mean scores of other qualified respondents. The mean scores of selective purchase for the respondents who are professionally qualified is 11.26, which is higher than the mean scores of other educational qualifications. The mean scores of hassle free purchase for the respondents who are post graduated is 12.08, which is higher than the mean scores of other educational qualifications. The mean scores of product detailing for the respondents who are post graduated is 11.00, which is higher than the mean scores of other educational qualifications.

The differences between the educational qualifications of the respondents on these six factors are tested by framing the following hypothesis:

 $\mathbf{H_0}$ Hypothesis – The perception factors namely shopping convenience, secured and easy transaction, time saving, selective purchase, hassle free purchase and product detailing have no significant difference among various educational qualifications of the respondents.

The above hypothesis was tested with the help of MANOVA. The test statistics Wilk's Lambda and the corresponding approximate F value is shown in the table. The F value (0.760) is found to be significant at 5per cent level. (Table Value: 0.958)

In the MANOVA table, since the F value for educational qualification is not significant and hence, the null hypothesis stated above is accepted.

Perception towards online purchase by Occupation

The 6 perception factors are simultaneously compared between the variables in Occupation. The mean scores comparing between different variables in Occupations of respondents are given in the following table.

Table 4.50
Perception towards Online Purchase by Occupation

| | | | | | | | | | | | Occi | ıpatio | n | | | | | | | | | | | |
|------------------------------|-------|------------------|-----|----------------|------------------|-----|-------|----------------|-----|-------|----------------|--------|-------|-------|-----|-------|-------|-----|-------|------|-----|--------|-------|---------------|
| | | nt and orking | | Studen time | t and j worki | - | | rivate loym | | | ernme loyme | | Bu | sines | S | Prof | essio | nal | | | Hou | ise Wi | fe | |
| | Mean | S.D | No. | Mean | S.D | No. | Mean | S.D | No. | Mean | S.D | No. | Mean | S.D | No. | Mean | S.D | No. | Mean | S.D | No | V | | Signifi cance |
| Shopping convenience | 19.37 | 3.33 | 126 | 19.50 | 2.73 | 42 | 19.16 | 2.83 | 94 | 19.53 | 3.87 | 15 | 19.97 | 3.03 | 67 | 20.28 | 2.11 | 18 | 19.06 | 2.98 | 66 | 0.905 | 1.172 | Ns |
| Secured and easy transaction | 14.24 | 2.53 | 126 | 13.86 | 2.69 | 42 | 14.63 | 2.54 | 94 | 14.47 | 2.83 | 15 | 13.99 | 2.63 | 67 | 13.72 | 3.18 | 18 | 14.44 | 2.40 | 66 | | | |
| Time saving | 15.09 | 2.30 | 126 | 15.05 | 2.41 | 42 | 14.78 | 2.29 | 94 | 15.93 | 2.37 | 15 | 14.70 | 2.56 | 67 | 15.33 | 2.47 | 18 | 14.80 | 2.44 | 66 | | | |
| Selective purchase | 11.21 | 1.89 | 126 | 11.19 | 1.86 | 42 | 10.89 | 1.52 | 94 | 11.27 | 1.75 | 15 | 11.07 | 1.75 | 67 | 11.33 | 1.28 | 18 | 11.42 | 1.55 | 66 | | | |
| Hassle free purchase | 11.73 | 1.89 | 126 | 11.45 | 2.15 | 42 | 11.86 | 1.60 | 94 | 11.73 | 1.71 | 15 | 11.87 | 1.40 | 67 | 11.78 | 1.48 | 18 | 12.15 | 1.59 | 66 | | | |
| Product detailing | 10.59 | 1.80 | 126 | 10.69 | 1.77 | 42 | 11.03 | 1.67 | 94 | 11.33 | 2.41 | 15 | 10.94 | 1.93 | 67 | 11.33 | 1.28 | 18 | 11.00 | 1.89 | 66 | | | |

The table 4.50 depicts that the mean scores of shopping convenience for the respondents who are professionally occupied is 20.28, which is higher than the mean scores of other occupations, such as student and not working, student and part time working, private employment, Government employment, business, professional and home makers. The mean scores of secured and easy transaction for respondents who are private employee is 14.63, which is higher than the mean scores of other occupations. The mean scores of time saving for respondents who are Government employee is 15.93, which is higher than the mean scores of other occupations. The mean scores of selective purchase for the respondents who are home makers is 11.42, which is higher than the mean scores of other occupations. Similarly, the mean scores of Hassle free purchase for the respondents who are home makers is 12.15, which is higher than the mean scores of other occupations. The mean scores of product detailing for the respondents who are professionals is 11.33, which is higher than the mean scores of other occupations.

The differences between the occupations of the respondents on these six factors were tested by framing the following hypothesis:

 $\mathbf{H_0}$ – The perception factors namely shopping convenience, secured and easy transaction, time saving, selective purchase, Hassle free purchase and product detailing have no significant difference among various occupations of the respondents.

The above hypothesis was tested with the help of MANOVA. The test statistics Wilk's Lambda and the corresponding approximate F value is shown in the table. The F value (1.172) is found to be significant at 5per cent level. (Table Value: 0.905)

In the MANOVA table, since the F value for educational qualification is not significant and hence, the null hypothesis stated above is accepted.

Perception towards online purchase by Type of the Family

The 6 perception factors are simultaneously compared between the variables in type of the family. The mean scores comparing different variables in type of the family of respondents are given in the following table.

Table 4.51
Perception towards Online Purchase by Type of the Family

| | Τ | ype o | f the | Family | y | | | | |
|------------------------------|-------|--------|-------|---------|--------|-----|-------|-------|------------------|
| | Nucle | ar fan | nily | Joint 1 | family | y | | | |
| | Mean | S.D | No. | Mean | S.D | No. | V | | Signi ficance |
| Shopping convenience | 19.64 | 2.88 | 326 | 18.73 | 3.44 | 102 | 0.961 | 2.869 | ** |
| Secured and easy transaction | 14.40 | 2.47 | 326 | 13.84 | 2.87 | 102 | | | |
| Time saving | 15.00 | 2.29 | 326 | 14.78 | 2.66 | 102 | | | |
| Selective purchase | 11.27 | 1.61 | 326 | 10.80 | 1.96 | 102 | | | |
| Hassle free purchase | 11.78 | 1.70 | 326 | 11.65 | 1.77 | 102 | | | |
| Product detailing | 10.91 | 1.77 | 326 | 10.75 | 1.95 | 102 | | | |

The table 4.51 depicts that the mean scores of shopping convenience for the respondents who belong to Nuclear Family is 19.64, which is higher than the mean scores of the respondents who belongs to Joint Family (18.73). Similarly, it is seen that for other factors such as secured and easy transaction, time saving, selective purchase and hassle free purchase, product detailing the mean scores of the nuclear family group is higher than the mean scores of joint family group.

The differences between the marital statuses of the respondents on these six factors were tested by framing the following hypothesis:

 $\mathbf{H_0}$ – The perception factors namely shopping convenience, secured and easy transaction, time saving, selective purchase, hassle free purchase and product detailing have no significant difference among nuclear family and joint family respondents.

The above hypothesis was tested with the help of MANOVA. The test statistics Wilk's Lambda and the corresponding approximate F value is shown in the table. The F value (2.869) is found to be significant at 5per cent or 1per cent level. (Table Value: 0.961)

In the MANOVA table, since the F value for type of the family is significant and hence, the null hypothesis stated above is rejected.

The follow up of MANOVA table is given below, since MANOVA gave significant result. In the following table, each factor is tested for significance difference among type of the family using ordinary One- Way ANOVA. This test is conducted only if MANOVA gives significant result.

Tests of Between-Subjects Effects

| Source | Dependent Variable | Sum of Squares | df | Mean Square | F | Sig. |
|-------------|------------------------------|-------------------|-----|----------------|-------|------|
| | Shopping convenience | 65.570 | 1 | 65.570 | 7.175 | ** |
| Between | Secured and easy transaction | 23.722 | 1 | 23.722 | 3.582 | Ns |
| Type of the | Time saving | 3.718 | 1 | 3.718 | .655 | Ns |
| Family | Selective purchase | 16.872 | 1 | 16.872 | 5.842 | * |
| Tallilly | Hassle free purchase | 2.294 | 1 | 2.294 | .778 | Ns |
| | Product detailing | 1.820 | 1 | 1.820 | .554 | Ns |
| | Shopping convenience | 3893.038 | 426 | 9.139 | | |
| | Secured and easy transaction | 2821.444 | 426 | 6.623 | | |
| Error | Time saving | 2416.252 | 426 | 5.672 | | |
| EHOI | Selective purchase | 1230.324 | 426 | 2.888 | | |
| | Hassle free purchase | 1256.853 | 426 | 2.950 | | |
| | Product detailing | 1400.112 | 426 | 3.287 | | |
| | Shopping convenience | 3958.607 | 427 | | | |
| | Secured and easy transaction | 2845.166 | 427 | | | |
| Total | Time saving | 2419.970 | 427 | | | |
| Total | Selective purchase | 1247.196 | 427 | | | |
| | Hassle free purchase | 1259.147 | 427 | | | |
| | Product detailing | 1401.932 | 427 | | | |

It is noted from the above table, the factors shopping convenience and selective purchase are significantly different between types of the family. The other four factors do not differ significantly between the different types of the family of the respondents

Perception towards online purchase by Monthly Income of the Family:

The 6 perception factors are simultaneously compared between Age groups. The mean scores comparing between different age groups of respondents are given in the following table.

Table 4.52
Perception towards online purchase by Monthly Income of the Family

| | | | | | | | M | lonthly | Income | of the fa | amily | | | | | | | |
|------------------------------|-------|----------|------|--------|-----------|-------|-------|-----------|--------|-----------|-----------|--------|-------|-----------|------|-------|-------------|------------------|
| | Belo | ow Rs.25 | 6000 | Rs.250 | 000 - Rs. | 40000 | Rs.40 | 000 - Rs. | 55000 | Rs.550 | 000 – Rs. | .70000 | Abo | ove Rs.70 | 0000 | | | |
| | Mean | S.D | No | Mean | S.D | No. | Mean | S.D | No | Mean | S.D | No | Mean | S.D | No | V | F- Ratio | Signi ficance |
| Shopping convenience | 19.09 | 2.88 | 122 | 18.98 | 3.11 | 140 | 20.18 | 2.71 | 60 | 19.73 | 2.97 | 55 | 20.24 | 3.41 | 51 | 0.901 | 1.846 | ** |
| Secured and easy transaction | 14.20 | 2.62 | 122 | 14.35 | 2.34 | 140 | 14.38 | 2.56 | 60 | 14.04 | 3.02 | 55 | 14.27 | 2.72 | 51 | | | |
| Time saving | 14.99 | 2.29 | 122 | 14.46 | 2.37 | 140 | 15.32 | 2.42 | 60 | 15.35 | 2.26 | 55 | 15.35 | 2.54 | 51 | | | |
| Selective purchase | 10.86 | 1.64 | 122 | 10.96 | 1.62 | 140 | 11.35 | 1.86 | 60 | 11.71 | 1.81 | 55 | 11.59 | 1.61 | 51 | | | |
| Hassle free purchase | 11.70 | 1.92 | 122 | 11.77 | 1.54 | 140 | 12.35 | 1.62 | 60 | 11.62 | 1.60 | 55 | 11.82 | 1.83 | 51 | | | |
| Product detailing | 10.66 | 1.74 | 122 | 10.73 | 1.78 | 140 | 11.35 | 1.72 | 60 | 11.11 | 2.19 | 55 | 10.94 | 1.64 | 51 | | | |

The table 4.52 exhibits that the mean scores of shopping convenience for the respondents whose monthly income above Rs.70000 is 20.24, which is higher than the mean scores of all other income groups such as Below Rs.25000, Rs.25000-40000, Rs.40000-55000, Rs.55000-70000. Similarly, the mean scores of other factors such as time saving, hassle free purchase remain higher than the other income groups. The mean scores of secured and easy transaction for respondents whose monthly income between Rs.40000-55000 is 14.38, which is higher than the mean scores of all other income groups. The mean scores of selective purchase for the respondents whose monthly income is between Rs.55000-70000 is 11.71, which is higher than the all other income groups. The mean scores of product detailing for the respondents whose monthly income is between Rs.40000-55000 is 11.35, which is higher than the all other income groups.

The differences between the age groups on these six factors have been tested by framing the following hypothesis:

 $\mathbf{H_0}$ – The perception factors namely shopping convenience, secured and easy transaction, time saving, selective purchase, hassle free purchase and product detailing have no significant difference among different income groups of respondents.

The above hypothesis was tested with the help of MANOVA. The test statistics Wilk's Lambda and the corresponding approximate F value is shown in the table. The F value (1.846) is found to be significant at 5per cent level. (Table Value: 0.906)

In the MANOVA table since the F value for age is significant and the null hypothesis stated above is rejected.

The follow up of MANOVA table is given below, since MANOVA gave significant result. In the following table each factor is tested for significance difference among income groups using ordinary One- Way ANOVA. This test is conducted only if MANOVA gives significant result.

Tests of Between-Subjects Effects

| Source | Dependent Variable | Sum of Squares | df | Mean Square | F | Sig. |
|---------------|------------------------------|-------------------|-----|----------------|-------|------|
| | Shopping convenience | 114.595 | 4 | 28.649 | 3.153 | * |
| Between | Secured and easy transaction | 5.171 | 4 | 1.293 | .193 | Ns |
| Monthly | Time saving | 59.168 | 4 | 14.792 | 2.650 | * |
| Income | Selective purchase | 44.395 | 4 | 11.099 | 3.903 | ** |
| of the family | Hassle free purchase | 21.041 | 4 | 5.260 | 1.797 | Ns |
| | Product detailing | 25.206 | 4 | 6.302 | 1.936 | Ns |
| | Shopping convenience | 3844.013 | 423 | 9.088 | | |
| | Secured and easy transaction | 2839.995 | 423 | 6.714 | | |
| Error | Time saving | 2360.801 | 423 | 5.581 | | |
| EHOI | Selective purchase | 1202.801 | 423 | 2.844 | | |
| | Hassle free purchase | 1238.106 | 423 | 2.927 | | |
| | Product detailing | 1376.726 | 423 | 3.255 | | |
| | Shopping convenience | 3958.607 | 427 | | | |
| | Secured and easy transaction | 2845.166 | 427 | | | |
| Total | Time saving | 2419.970 | 427 | | | |
| Total | Selective purchase | 1247.196 | 427 | | | |
| | Hassle free purchase | 1259.147 | 427 | | | |
| | Product detailing | 1401.932 | 427 | | | |

It is noted from the above table that the factors shopping convenience, time saving and selective purchase were significantly different among various income groups. The other three factors do not differ significantly between the different income groups of the respondents.

Perception towards online purchase by kind of products purchased

The 6 perception factors are simultaneously compared between the variables in kinds of products purchased. The mean scores comparing between different variables in kind of products of respondents are given in the following table.

Table 4.53
Perception towards Online Purchase by Kind of Products Purchased

| | Kind | of pr | odu | cts pui | rchas | ed o | nline | | | | | |
|------------------------------|----------------|-------|-----|--------------|--------------|------|-------|------|----|-------|------------|--------------|
| | Brand Produ | | | Non Produ | Brar ıcts | ıded | Both | | | | | |
| | Mean | S.D | No. | Mean | S.D | No. | Mean | S.D | No | V | F Ratio | Significance |
| Shopping convenience | 19.60 | 3.11 | 202 | 19.17 | 2.72 | 141 | 19.42 | 3.39 | 85 | 0.980 | 0.698 | Ns |
| Secured and easy transaction | 14.37 | 2.70 | 202 | 13.99 | 2.15 | 141 | 14.47 | 2.92 | 85 | | | |
| Time saving | 15.13 | 2.36 | 202 | 14.69 | 2.24 | 141 | 14.96 | 2.63 | 85 | | | |

| Selective purchase | 11.23 | 1.80 | 202 | 11.00 | 1.48 | 141 | 11.26 | 1.84 | 85 | | |
|-----------------------|-------|------|-----|-------|------|-----|-------|------|----|--|--|
| Hassle free purchase | 11.89 | 1.77 | 202 | 11.74 | 1.67 | 141 | 11.80 | 1.67 | 85 | | |
| Product detailing | 11.05 | 1.81 | 202 | 10.72 | 1.59 | 141 | 10.71 | 2.11 | 85 | | |

The table 4.53 displays the mean scores of shopping convenience for the respondents who purchase branded products is 19.60 which is higher than the mean scores of non-branded products and both branded and non-branded products. Similarly, the mean scores of time saving, hassle free purchase and product detailing for respondents who purchase branded products stands high when comparing to non-branded products and both branded and non-branded products. The mean scores of secured and easy transaction for respondents who purchase both branded and non-branded is 14.47, which is slightly higher than the mean scores of branded and non-branded products. Similarly, it is seen that for selective purchase the mean scores of both branded and non-branded products is higher than the mean scores of branded and non-branded products.

The differences between the kinds of products purchased by the respondents on these six factors are tested by framing the following hypothesis:

 $\mathbf{H_0}$ – The perception factors namely shopping convenience, secured and easy transaction, Time saving, selective purchase, Hassle free purchase and product detailing have no significant difference among the kinds of products purchased through online.

The above hypothesis was tested with the help of MANOVA. The test statistics Wilk's Lambda and the corresponding approximate F value is shown in the table. The F value (0.698) is found to be significant at 5per cent or 1per cent level. (Table Value: 0.980)

In the MANOVA table, since the F value for kind of products purchased is not significant and hence, the null hypothesis stated above is accepted.

Perception towards online purchase by Occasion

The 6 perception factors are simultaneously compared between occasions of purchase of products through online. The mean scores comparing between different occasions of online purchase by respondents are given in the following table.

Table 4.54
Perception towards Online Purchase by Occasion

| | | | | (| Occasio | on in v | vhich p | roduct | ts purc | hased t | hroug | h onlii | ne? | | |
|------------------------------|-------|---------|------|---------|---------|---------|------------------|--------|---------|---------|---------|---------|-------|---------|--------------|
| | Whene | ever ne | eded | Festiva | al seas | on | Specia Discou | | Offers/ | Specia | ıl Occa | sions | V | F ratio | Significance |
| | Mean | S.D | No | Mean | S.D | No | Mean | S.D | No | Mean | S.D | No | 0.915 | 2.105 | ** |
| Shopping convenience | 19.80 | 3.06 | 182 | 18.59 | 2.63 | 88 | 19.73 | 2.99 | 133 | 18.00 | 3.71 | 25 | | | |
| Secured and easy transaction | 14.20 | 2.55 | 182 | 14.40 | 2.22 | 88 | 14.32 | 2.74 | 133 | 14.00 | 3.16 | 25 | | | |
| Time saving | 14.99 | 2.42 | 182 | 14.51 | 2.04 | 88 | 15.41 | 2.31 | 133 | 13.72 | 2.97 | 25 | | | |
| Selective purchase | 11.14 | 1.65 | 182 | 11.00 | 1.60 | 88 | 11.26 | 1.80 | 133 | 11.28 | 2.05 | 25 | | | |
| Hassle free purchase | 11.86 | 1.70 | 182 | 11.92 | 1.53 | 88 | 11.68 | 1.86 | 133 | 11.88 | 1.72 | 25 | | | |
| Product detailing | 10.92 | 1.83 | 182 | 10.84 | 1.64 | 88 | 10.85 | 1.82 | 133 | 10.72 | 2.25 | 25 | | | |

The table 4.54 displays the mean scores of shopping convenience for the respondents who purchase online products whenever they need is 19.80, which is higher than the mean scores of all other occasions such as festival season, special offers/ discounts and special occasions. Similarly, the mean scores of product detailing remains high than the other occasions. The mean scores of secured and easy transaction for respondents who purchase products through online only during festive season is 14.40, which is higher than the mean scores of all other occasions. The mean scores of time saving for the respondents who purchase products through online is 15.41, which is higher than the all other occasions. The mean scores of selective purchase for the respondents who purchase product through online during some special occasion is 11.28, which is higher than the all other occasions. The mean scores of hassle free purchase for the respondents who purchase product through online during festival season is 11.92, which is higher than the all other occasions.

The differences between the various occasions for purchase of online products on these six factors are tested by framing the following hypothesis:

 $\mathbf{H_0}$ – The perception factors namely shopping convenience, secured and easy transaction, time saving, selective purchase, hassle free purchase and product detailing have no significant difference among occasions on the purchase of online product.

The above hypothesis was tested with the help of MANOVA. The test statistics Wilk's Lambda and the corresponding approximate F value is shown in the table. The F value (2.105) is found to be significant at 5per cent level. (Table Value: 0.915)

In the MANOVA table since the F value for occasion for purchase of online products is significant and the null hypothesis stated above is rejected.

The follow up of MANOVA table is given below, since MANOVA gave significant result. In the following table, each factor is tested for significance difference among various occasions using ordinary One- Way ANOVA. This test is conducted only if MANOVA gives significant result.

Tests of Between-Subjects Effects

| Source | Dependent Variable | Sum of Squares | df | Mean Square | F | Sig. |
|-------------------|------------------------------|-------------------|-----|----------------|-------|------|
| | Shopping convenience | 150.200 | 3 | 50.067 | 5.574 | ** |
| Occasion in which | Secured and easy transaction | 4.470 | 3 | 1.490 | .222 | Ns |
| purchased through | Time saving | 83.691 | 3 | 27.897 | 5.063 | ** |
| online? | Selective purchase | 4.081 | 3 | 1.360 | .464 | Ns |
| | Hassle free purchase | 3.761 | 3 | 1.254 | .423 | Ns |
| | Product detailing | 1.204 | 3 | .401 | .121 | Ns |
| | Shopping convenience | 3808.407 | 424 | 8.982 | | |
| | Secured and easy transaction | 2840.696 | 424 | 6.700 | | |
| Error | Time saving | 2336.279 | 424 | 5.510 | | |
| | Selective purchase | 1243.115 | 424 | 2.932 | | |
| | Hassle free purchase | 1255.386 | 424 | 2.961 | | |
| | Product detailing | 1400.728 | 424 | 3.304 | | |
| | Shopping convenience | 3958.607 | 427 | | | |
| | Secured and easy transaction | 2845.166 | 427 | | | |
| Total | Time saving | 2419.970 | 427 | | | |
| | Selective purchase | 1247.196 | 427 | | | |
| | Hassle free purchase | 1259.147 | 427 | | | |
| | Product detailing | 1401.932 | 427 | | | |

It is noted from the above table that the factors shopping convenience and time saving are significantly different between various occasions. The other four factors do not differ significantly between the different occasions on the purchase of online products of the respondents.

Perception towards Online Purchase by Decision Making on Online Purchase

The 6 perception factors are simultaneously compared between the variables in decision makers on online purchase. The mean scores comparing between different variables in decision makers on online purchase are given in the following table.

Table 4.55
Perception towards Online Purchase by Decision Making on Online Purchase

| | | | | | | | Final (| decisio | n for o | nline pu | ırchase | in fan | nily | | | | | | | | |
|------------------------------|-------|--------|-----|-------|---------|------|---------|--------------------|---------|----------|---------|--------|-------|--------|----|-------|--------|-------|-------|------------|------------------|
| | Ear | ning M | ale | Earn | ing Fer | nale | | earning nd fema | | (| Childre | n | | Elders | | All t | he mem | nbers | | | |
| | Mean | S.D | No | Mean | S.D | No | Mean | S.D | No | Mean | S.D | No | Mean | S.D | No | Mean | S.D | No | V | F Ratio | Signi ficance |
| Shopping convenience | 19.32 | 2.76 | 130 | 19.05 | 3.39 | 60 | 19.54 | 2.59 | 81 | 18.23 | 3.47 | 13 | 19.71 | 2.99 | 28 | 19.72 | 3.40 | 116 | 0.932 | 0.996 | Ns |
| Secured and easy transaction | 14.32 | 2.71 | 130 | 14.52 | 2.34 | 60 | 14.06 | 2.55 | 81 | 14.38 | 1.98 | 13 | 14.18 | 2.23 | 28 | 14.22 | 2.74 | 116 | | | |
| Time saving | 14.90 | 2.10 | 130 | 14.57 | 2.34 | 60 | 14.81 | 2.46 | 81 | 14.15 | 1.77 | 13 | 15.07 | 2.81 | 28 | 15.36 | 2.56 | 116 | | | |
| Selective purchase | 11.14 | 1.75 | 130 | 11.13 | 1.49 | 60 | 11.17 | 1.73 | 81 | 10.31 | 2.10 | 13 | 11.39 | 1.50 | 28 | 11.22 | 1.76 | 116 | | | |
| Hassle free purchase | 11.81 | 1.68 | 130 | 12.03 | 1.51 | 60 | 11.60 | 1.63 | 81 | 11.23 | 2.01 | 13 | 11.96 | 1.55 | 28 | 11.91 | 1.92 | 116 | | | |
| Product detailing | 10.78 | 1.67 | 130 | 11.15 | 1.57 | 60 | 10.96 | 1.79 | 81 | 9.54 | 2.11 | 13 | 10.61 | 2.02 | 28 | 10.97 | 1.96 | 116 | | | |

The table 4.55 depicts that the mean scores of shopping convenience for the respondents who makes decision on purchase of online products is, all the members in the family (19.72) which is higher than the mean scores of all other decision makers in the family. Similarly, the mean scores of time saving for respondents who makes decision on purchase of online products stands high when comparing to other decision makers in the family. The mean scores of secured and easy transaction for respondents who makes decision on purchase of online products is earning women whose mean score is 14.52, which slightly higher than the mean scores of other decision makers in the family. Similarly, it is seen that for hassle free purchase and product detailing the mean scores of earning women is higher than the mean scores of all other decision makers. The mean scores of selective purchase for respondents who makes decision on purchase of online products is elders whose mean score is 11.39 which slightly higher than the mean scores of other decision makers in the family.

The differences between the decision makers on purchase of online products of the respondents on these six factors are tested by framing the following hypothesis: $\mathbf{H_0}$ – The perception factors namely shopping convenience, secured and easy transaction, time saving, selective purchase, hassle free purchase and product detailing have no significant difference among the decision makers on purchase of online products.

The above hypothesis was tested with the help of MANOVA. The test statistics Wilk's Lambda and the corresponding approximate F value is shown in the table. The F value (0.996) is found to be significant at 5per cent level. (Table Value: 0.932)

In the MANOVA table since the F value for decision makers on purchase of online products is not significant and hence the null hypothesis stated above is accepted.

Perception towards Online Purchase by Amount Spent on Purchase of Online Products

The 6 perception factors are simultaneously compared between amounts spent on purchase of online products. The mean scores comparing between different amounts spent on purchase of online products by respondents are given in the following table.

Table 4.56
Perception towards Online Purchase by Amount Spent on Online Purchase

| | | | | | | | A | Amou | ınt s | pent fo | r pu | rcha | asing o | nline _l | per m | onth | | | | | |
|------------------------------|---------|---------------|------|-------|--------|-----|-------|-------|-------|---------|--------|------|---------|--------------------|-------|-------|------|-----|-------|---------|--------------|
| | Less th | an Rs | 2000 | Rs. | 2000 | to | Rs. | 4001 | to | Rs.6 | 6001 t | О. | Rs. | 8001 1 | to | | | | Rs.10 | 001 | |
| | Less th | un Ks. | 2000 | Rs | s.4000 |) | Rs | .6000 |) | Rs | .8000 | | Rs | .1000 | 0 | | | | & Abo | ove | |
| | Mean | S.D | No. | Mean | S.D | No. | Mean | S.D | No. | Mean | S.D | No | Mean | S.D | No. | Mean | S.D | No. | V | F Ratio | Significance |
| Shopping convenience | 19.62 | 52 2.85 208 1 | | | 3.01 | 127 | 19.39 | 3.38 | 41 | 19.09 | 4.23 | 11 | 18.94 | 3.11 | 31 | 16.70 | 3.65 | 10 | 0.892 | 1.619 | * |
| Secured and easy transaction | 14.09 | 2.41 | 208 | 14.34 | 2.48 | 127 | 14.54 | 2.85 | 41 | 15.55 | 3.11 | 11 | 14.39 | 2.94 | 31 | 14.10 | 4.18 | 10 | | | |
| Time saving | 14.72 | 2.32 | 208 | 15.17 | 2.34 | 127 | 15.24 | 2.51 | 41 | 14.82 | 2.32 | 11 | 15.26 | 2.72 | 31 | 15.00 | 2.71 | 10 | | | |
| Selective purchase | 10.98 | 1.63 | 208 | 11.43 | 1.68 | 127 | 11.29 | 1.87 | 41 | 11.64 | 1.63 | 11 | 11.32 | 1.66 | 31 | 9.80 | 2.39 | 10 | | | |
| Hassle free purchase | 11.98 | 1.76 | 208 | 11.64 | 1.67 | 127 | 11.66 | 1.70 | 41 | 11.82 | 1.99 | 11 | 12.13 | 1.50 | 31 | 10.60 | 1.26 | 10 | | | |
| Product detailing | 10.81 | 1.72 | 208 | 10.83 | 1.92 | 127 | 11.10 | 1.69 | 41 | 11.36 | 1.36 | 11 | 11.13 | 1.91 | 31 | 10.30 | 2.91 | 10 | | | |

The table 4.56 shows the mean scores of shopping convenience for the respondents who spent amount less than Rs.2000 for purchase of online products is 19.62, which is higher than the mean scores of all other amounts such as Rs.2000-4000, Rs.4001-6000, Rs.6001-8000, Rs.8001-10000 and above Rs.10000. Similarly, the mean scores of selective purchase, product detailing remains same for the respondents who spent between Rs.6001-8000 for online purchase. The mean scores of time spent for respondents who spent between Rs.6001 to Rs.8000 for online purchase is 15.55, which is higher than the mean scores of all other amounts. The mean scores of time saving for the respondents who spent between Rs.8001 – 10000 for purchase of products through online is 15.26, which is higher than the all other amounts. Similarly the mean scores of Hassle free purchase for the respondents who spent between Rs.8001-10000 for purchase of products through online is 12.13, which is higher than the all other amounts.

The differences between the various amounts spent on purchase of online products on these six factors are tested by framing the following hypothesis:

 $\mathbf{H_0}$ – The perception factors namely shopping convenience, secured and easy transaction, time saving, selective purchase, hassle free purchase and product detailing have no significant difference among different amounts spent on purchase of online products by the respondents.

The above hypothesis was tested with the help of MANOVA. The test statistics Wilk's Lambda and the corresponding approximate F value is shown in the table. The F value (1.619) is found to be significant at 5per cent level. (Table Value: 0.892)

In the MANOVA table since the F value for amount spent on purchase of online products is significant and the null hypothesis stated above is rejected.

The follow up of MANOVA table is given below, since MANOVA gave significant result. In the following table, each factor is tested for significance difference among various amounts spent on purchase of online products using ordinary One- Way ANOVA. This test is conducted only if MANOVA gives significant result.

Tests of Between-Subjects Effects

| Source | Dependent Variable | Sum of Squares | l df | | F | Sig. | |
|--|------------------------------|-------------------|------|--------|-------|------|--|
| Amount spent for purchasing online per month | Shopping convenience | 91.008 | 5 | 18.202 | 1.986 | Ns | |
| | Secured and easy transaction | 29.105 | 5 | 5.821 | .872 | Ns | |
| | Time saving | 23.482 | 5 | 4.696 | .827 | Ns | |
| | Selective purchase | 38.685 | 5 | 7.737 | 2.702 | * | |
| | Hassle free purchase | 28.189 | 5 | 5.638 | 1.933 | Ns | |
| | Product detailing | 10.978 | 5 | 2.196 | .666 | Ns | |
| Error | Shopping convenience | 3867.599 | 422 | 9.165 | | | |
| | Secured and easy transaction | 2816.060 | 422 | 6.673 | | | |
| | Time saving | 2396.487 | 422 | 5.679 | | | |
| | Selective purchase | 1208.512 | 422 | 2.864 | | | |
| | Hassle free purchase | 1230.958 | 422 | 2.917 | | | |
| | Product detailing | 1390.954 | 422 | 3.296 | | | |
| Total | Shopping convenience | 3958.607 | 427 | | | | |
| | Secured and easy transaction | 2845.166 | 427 | | | | |
| | Time saving | 2419.970 | 427 | | | | |
| | Selective purchase | 1247.196 | 427 | | | | |
| | Hassle free purchase | 1259.147 | 427 | | | | |
| | Product detailing | 1401.932 | 427 | | | | |

It is noted from the above table that the factor selective purchase significantly differ between various amounts spent on purchase of online products. The other five factors do not differ significantly between the different amounts spent on the purchase of online products of the respondents.

Perception towards Online Purchase by Kind of Payment Mode

The 6 perception factors are simultaneously compared between the variables in kind of payment mode on online purchase. The mean scores comparing between different variables in kind of payment mode on online purchase are given in the following table.

Table 4.57
Perception towards Online Purchase by Kind of Payment Mode on Online Purchase

| | Kind of payment mode preferred | | | | | | | | | | | | | | |
|------------------------------|--------------------------------|------|----|-------------|------|------------------|-------|-------------|-----|-------|------|----|-------|------------|--------------|
| | Debit Card | | | Credit Card | | Cash on Delivery | | Net Banking | | | | | | | |
| | Mean | S.D | No | Mean | S.D | No | Mean | S.D | No | Mean | S.D | No | 11/ | F Ratio | Significance |
| Shopping convenience | 18.88 | 3.67 | 49 | 18.86 | 2.70 | 51 | 19.60 | 2.98 | 302 | 19.58 | 3.11 | 26 | 0.937 | 1.522 | Ns |
| Secured and easy transaction | 14.53 | 2.59 | 49 | 14.45 | 2.99 | 51 | 14.25 | 2.53 | 302 | 13.62 | 2.37 | 26 | | | |
| Time saving | 14.71 | 2.78 | 49 | 14.55 | 2.52 | 51 | 15.04 | 2.30 | 302 | 15.19 | 2.30 | 26 | | | |
| Selective purchase | 11.29 | 1.68 | 49 | 11.24 | 1.81 | 51 | 11.15 | 1.70 | 302 | 10.88 | 1.68 | 26 | | | |
| Hassle free purchase | 12.22 | 1.39 | 49 | 11.61 | 1.77 | 51 | 11.86 | 1.75 | 302 | 11.04 | 1.54 | 26 | | | |
| Product detailing | 10.80 | 1.86 | 49 | 11.22 | 2.14 | 51 | 10.86 | 1.75 | 302 | 10.50 | 1.75 | 26 | | | |

The table 4.57 expresses the mean scores of shopping convenience for the respondents who makes payment by cash on delivery for purchase of online products is 19.60, which is higher than the mean scores of all other mode of payment such as debit card payment, credit card payment and net baking. The mean scores of secured and easy transaction for respondents who makes payment through debit card on purchase of online products is 14.53, which slightly higher than the mean scores of other mode of payments. Similarly, it is seen that for selective purchase and hassle free purchase mean scores of debit card is higher than the mean scores of all other mode of payments. The mean scores of time saving for respondents who makes payment through net bank for purchase of online products is 15.19, which slightly higher than the mean scores of product detailing for respondents who makes payment through credit card for purchase of online products is 11.22, which slightly higher than the mean scores of other Payment modes.

The differences between the kinds of payment mode on purchase of online products of the respondents on these six factors are tested by framing the following hypothesis

 $\mathbf{H_0}$ – The perception factors namely shopping convenience, secured and easy transaction, time saving, selective purchase, hassle free purchase and product detailing have no significant difference between the kinds of payment used by the respondents on purchase of online products.

The above hypothesis was tested with the help of MANOVA. The test statistics Wilk's Lambda and the corresponding approximate F value is shown in the table. The F value (1.522) is found to be significant at 5per cent level. (Table Value: 0.937)

In the MANOVA table since the F value for kind of payment mode preferred on purchase of online products is not significant and hence the null hypothesis stated above is accepted.