

Impact of Personality Traits on Compulsive Buying Behavior: Mediating Role of Impulsive Buying

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Abstract

The prime purpose of this study is to investigate the relationship between personality traits and compulsive buying behavior with mediating role of impulsive buying. By using quantitative research approach, convenience sampling method is selected. Data are collected by using previously established scales. Correlation coefficient and multiple regressions are applied to analyze directions and strength of relationship between variables. According to results agreeableness, neuroticism and openness to experience are three personality traits that are related with compulsive buying with mediating role of impulsive buying. The present study is useful for policy makers, consumers and for society at large. In addition, this investigation provides a starting point for future research with comprehensive theoretical framework.

Keywords

Personality Traits, Impulsive Buying, Compulsive Buying

1. Introduction

Not late then past decade, an instant process of change is being observed worldwide in emerging marketplace. There is a huge increase in the number of shopping centers/malls and additional variety in retail shelves making global brands more easily available to consumer than ever. Besides, the purchasing power of consumers in emerging markets has improved because of change in income, information about any product at any place and readily available money. On the other hand, the generous growth of the credit card industry and regression in individual financial responsibility may also contribute to increased purchasing power. These changes might cause an upturn in hedonic shopping value in emerging market consumers, which may result in a

growth of the frequency rate of impulsive and compulsive buying behavior.

There is a strong public interest in new shopping malls, retail exhibitions, and increasing sales volumes, restaurants, increase in overseas travelling, and prominent international brands opening their outlets in the Pakistan. Additionally, the inspiring performance of fast moving consumer goods (FMCGs) industry also supports this uplifted consumption trend. These facts shows that some people in Pakistan are compulsive buyers, still only few of them know that they are compulsive. Within a high-inflation-low-growth situation, and sluggish employment opportunities in the country, the trend in consumer spending appears strange as real consumption grew by 11.1 percent during Fiscal year 2012, compared to 3.9 percent a year earlier. The ever increasing rate of inflation and price do not seem to have any effect on some buyers as they are addicted to buy and a wide variety of goods attract them which may put them in financial hardships.

By taking into account the generally established significance of personality in determining consumer behavior, this study will examine that personality trait has utmost effect on compulsive buying behavior with mediating effect of impulsive buying. Impulse buying behavior can be defined as an unexpected wish of the buyer for unintended purchase by seeing any product at retail store. Such type of behavior is quite baseless and without any logic. In modern ages, with the progress of fiscal status and self-conscience, impulsive buying has increased (Bashir, 2013) [1].

Compulsive behavior can be defined as doing an act consistently and repetitively without leading it to a desired reward or actual pleasure. The word “compulsive” mentions the feeling of a person that drives him to do an action again and again. Thus compulsive buying is an unusual type of shopping and a psychological disorder.

Extravert persons experience less or minor anxiety because of negative response. Highly extravert persons hold a very optimistic attitude about life. Neuroticism is the state of being neurotic. Neurotic persons tend to be abnormally sensitive and emotionally unstable. Agreeableness personality related trait manifests itself in individual’s behavioral features that are supposed as caring, compassionate, obliging, sincere plus sympathetic. Conscientiousness can be defined as wishing to do one’s work or duty well and in organized way. Openness element of personality differentiates inventive and ingenious people from usual people.

O’Guinn and Faber (1989) [2] explained compulsive buying in regard to personality traits and impulse buying binges. It was argued that some characteristics in compulsive personalities are similar to each other such as high levels of obsessions and anxiety, high levels of depression, and low self esteem. Compulsive personalities more often involve in harmful behaviors that may be self-destructive even in a way of getting escape from unpleasant feeling. These harmful behaviors may include ritualistic reactions, gambling, frequent impulsive shopping, eating, or alcohol.

Omer (2014) [3] examined the mediating role of impulsive buying between personality traits and compulsive buying. Both compulsive and impulsive buying behaviors are strongly correlated with emotional instability (Neuroticism), among personality traits.

It means that individuals who experience sadness, irritability, moodiness, anxiety and emotional instability are more disposed to show impulsive leading to compulsive buying behaviors.

Shahjahan (2012) [4] also studied the relationship among impulsive buying behavior, compulsive buying and personality traits. Research demonstrates that those individuals who face emotional instability, anxiety, moodiness, irritability, and sadness are more likely to display impulsive and compulsive buying behaviors. Much compulsive buying is also an outcome of negative feelings and stress. Past research has also found that negative feelings such as anxiety can influence the likelihood of and person to have compulsive buying behaviors (O'Guinn & Faber, 1989).

According to Donnelly (2012) [5] conscientiousness can play a prime role in planning future expenses, it may result in less compulsive buying as well. In previously listed articles it was stated that persons are future oriented that is why they manage their money more, therefore, it is expected that conscientiousness have a novel, negative relationship with compulsive buying, whereas openness to experience is related with compulsive buying because these persons have higher level of impulsiveness.

Another study by Tao Sun (2004) [6] has been conducted to uncover the hierarchical relationship between personality traits, impulsiveness and compulsive buying behavior. In this investigation significant positive relationship was identified between compulsive and impulsiveness. It was proved that emotional instability is directly related with these two purchase related spectrum (impulsive and compulsive), and extraversion is related with impulse buying but not with compulsive buying. Previously established findings are replicated by these findings on compulsive and impulsive buying characteristics. There is strong statistical proves that impulse buying is response of inner traits embedded in personality rather than provoked by external cues. In addition, a significant amount of variance is revealed that compulsive buying can be the result of central and cardinal traits that are impulsive buying and neuroticism.

According to Faber and O'Guinn (1992) [7], lack of impulse control can result in spontaneous or unplanned buying and promote more impulsiveness. This lack of impulse control when comes to a certain point, chronic loss of impulse control accumulated that might develop into compulsive buying. One approach to compulsive buying argue that it is a source of avoiding the frustration of daily life. This argument comes from escape theory by Faber and Vohs, 2004 [8]. Escape theory is a hybrid form of action identification theory and self-awareness theory. According to this theory compulsive buying is the outcome of individual's need to get a way to escape from their self-awareness and from the reality of their lives. This perspective says that compulsive buyers recognize that they are doing an irrational act, but the only solution that they know to make themselves forget the issue is to sink deeper into it. Conflict theory by Bron (1986) [9] can also be employed. In relation to compulsive behavior, conflict theory states that compulsive buyers are a specific segment that has accepted the values of current system without any question. It does not matter for this segment that either their perceived accepted values are in conflict with their own values or not. Because of

their complete acceptance of the system they are not able to identify it as one of the core reasons of their compulsion. Therefore in an attempt to lessen their suffering they initiate to consume at extraordinary high level. Although the commodities they purchase can provide only a temporary relief, still they continue this activity for short pleasure. This is quite similar to the application of escape theory to compulsive buying (Youn, 2000) [10]. According to social attention theory by Ashton (2002) [11] the core element of extraversion is a tendency to work in such a way that attract, hold, and enjoy social attention. The fundamental quality of social attention is the potential of being rewarded. As a result if a person express positive emotions of intense and eager enjoyment, energy, and excitement, that person is seen favorably by others and gains others' attention. This favorable reaction from others likely encourages extraverts to engage in further extraverted behavior that might leads to impulsion and finally compulsion. According to social attention theory by Ashton (2002) the core element of extraversion is a tendency to work in such a way that attract, hold, and enjoy social attention. The fundamental quality of social attention is the potential of being rewarded. As a result if a person express positive emotions of intense and eager enjoyment, energy, and excitement, that person is seen favorably by others and gains others' attention. This favorable reaction from others likely encourages extraverts to engage in further extraverted behavior that might leads to impulsion and finally compulsion.

Christenson (1994) [12] explained compulsive buying in relation with apparel industry. In this study, twenty-four compulsive buyers were interviewed by using modified structured clinical measures for diagnostic compulsiveness or mental disorder. It was diagnostic that mostly consumers purchase cloths and makeup, which usually went unused by compulsive buyers. In additions, 95.8% buyers who were compulsive describe their buying in context of impulse control disorder and this sort of behavior is because of their desire of seeking reward.

Other researchers (Schlosser *et al.*, 1994) [13] have open industry specific dimensions of compulsive buying as well. It was proved that majority of compulsive buyers prefer to buy some specific products to which they are habitual like apparel related products. Compulsive buyers show affinity for apparel related product during their compulsive buying episodes and this affinity is quite prominent in the level of involvement in buying process.

Product involvement can be defined as unobservable state that shows the level of emotional attachment, arousal, and interest of a consumer in association with a product. Product involvement of each consumer has some specific continuum that depends on product categories. In general, individuals exhibit different levels of product involvement for different product categories. But for some categories, consumers show all time higher levels of involvement then usual and one of such categories is apparel (Bloch, 1986) [14].

Extraversion is related to impulsive buying behavior.

- There is a relationship between agreeableness and impulse buying behavior.
- Conscientiousness is related to impulse buying behavior.

- There is a relationship between neuroticism and impulse buying behavior.
- There is a relationship between openness to experience and impulse buying behavior.
- There is a relationship between extraversion and compulsive buying behavior.
- There is a relationship between agreeableness compulsive buying behavior.
- There is a relationship between conscientiousness and compulsive buying behavior.
- There is a relationship between neuroticism and compulsive buying behavior.
- Openness to experience is related to compulsive buying behavior.
- There is a relationship between impulsive buying behavior and compulsive buying behavior.
- There is a mediating effect of impulsive buying behavior between extraversion and compulsive buying behavior.
- There is a mediating effect of impulsive buying behavior between agreeableness compulsive buying behaviors.
- There is a mediating effect of impulsive buying behavior between conscientiousness and compulsive buying behavior.
- There is a mediating effect of impulsive buying behavior between neuroticism and compulsive buying behavior.
- There is a mediating effect of impulsive buying behavior between openness to experience and compulsive buying behavior.

2. Research Methodology

First population is determined for this investigation. All male and female customers of well-known apparel select brands who were at least 25 years old or above, having at least 35000 income or above, minimum one year experience with the selected brand and frequency of visit once a month or more, jointly formulated population for this investigation. As Faisalabad is a hub of industrial sector. All outlets of major brands are available here that is why there are opportunities to conduct quality research work focusing apparel industry. Total population **Table 1** of all selected brands in Faisalabad is calculated with the help of store manager as 179,200. This population estimation is subject to off and peak season visits by customer.

Sample size is calculated by using the approach of Israel (1992) [15] at 93% confidence level and 7% precision level. Total 300 questionnaires were distributed in order to collect data from apparel customers from which 260 were return back and 60 questionnaires were not valid. Remaining 200 responses are considered for further analysis. Response rate of customers was 86% as 260 questionnaires out of 300 were return back. Convenience sampling technique is used for this study that is non-probability sampling technique. Convenience sampling is used because customers need to be requested for response immediately after shopping from stated brands. Following previously established scales were used to measure variables.

Personality traits: 44 items scale by John & Srivastava (1999) [16].

Table 1. Apparel brands population in Faisalabad.

Population Size of Different Apparel Brands of Faisalabad						
Sr. No.	Name of Brand	No. of Customers per Day in Peak Season	Total No. of Customers In Peak Season (90 Days)	No. of Customers per Day in off Season	Total No. of Customers in off Season (90 Days)	Total No. of Customers (Off + Peak Season)
1	Chen One	150	13,500	50 - 60	5400	18,900
2	Gul Ahmed (Ideas)	150	13,500	40 - 50	4500	18,000
3	Ittehad	200	18,000	70 - 80	7200	25,200
4	Threads and Motifs	10 - 15	1,350	10 - 15	1350	2700
5	HadiqaKiani	8 - 10	900	8 - 10	900	1800
6	Khaadi	200+	18,000	40 - 50	4500	22,500
7	Warda	20+	1,800	20+	1800	3600
8	Portia	50+	4,500	50+	4500	9000
9	Nishat	350 - 400	36,000	50 - 60	5400	41,400
10	J. J.	300+	27,000	50 - 60	5400	32,400
Total No. of Customers In off + Peak Season (Approximately)						175,500

Impulsive buying: 9 items scale by Rook and Fisher (1995) [17].

Compulsive buying: 13 item scale by Edward (1963) [18].

According to descriptive statistics 163 respondents were females and remaining were males. 56 respondents were relating to their personal business that is 26.7% percent of the total sample size.

100 customers out of 200 were doing jobs and make 54.8% of the entire respondents. 39 respondents responded as others and formulate 18.6% of all respondents. Age distribution results of 200 respondents indicate that 136 respondents were those who had age in somewhere between 20 to 30 and formulate 70.5% of entire respondents. 40 respondents were those who belong to second age group (31 - 40) and make 19% of entire respondents. 20 respondents belong to third age group that is (41 - 50) which is 7.6% of sample size. 4 respondents belong to last age group (51 - 60) that is 2.4 percent of sample size. Respondents were also probed about their preferred brand. Most of the respondents (68) were customers of chenone and formulate 34% of entire respondents. Second preferred brand was ideas by gulahmad because 36 respondents prefer gulahmad and make 18% of entire respondents. Third preferred brand was charcoal. 28 respondents prefer charcoal and make 14% of total sample size. 8 respondents indicate threads and motifs as their preferred brand that is 4% of entire sample size. 12 respondents select warda and 12 respondents select nishat and 12 respondents select dinners. All three contribute up to 6% respectively. Four respondents select J. J that is 2% of entire respondents. 8 respondents indicate ittehad and it is 4% and 12 respondents select khaadi, which is 6% of entire sample size. Experience with the brand frequency response shows that out of 200 respondents, 36 respondents have less then one year expe-

rience that is 18% of entire respondents. 124 respondents have experience with the brand for about 1 to five years making 62% of whole sample size. 32 respondents have experience with the brand for about 6 to 10 years and these respondents are 16% of total responses. Remaining 8 respondents have experience of 10 years or above for preferred brand and these responses are 4% of the entire sample. Education of the respondent was also probed in questionnaire. It is found in education frequency results of 200 respondents that 2% respondents were only matric whereas 4% respondents were intermediate (**Table 2**). 50% respondents have completed bachelor education and 38% respondents have completed master's degree. 6% of entire respondents have attained the education of M. Phil. Most of the respondents have attained sixteen-year education that participated in this study. Results of 200 respondents reveal that 54% respondents fall in first income group that is 35,000 to 45,000 and this is the income range of major portion of respondents. Income of 14% respondents is between 46,000 to 55,000 and these respondents are 28 out of 200. Next 14% respondents earn 56,000 to 65,000 who are exactly 28 respondents again. Higher income range respondents make only 10% of entire respondents that are exactly 20 respondents. Only 8% respondents were those who earn 100,000 and above.

All variable are reliable on acceptable continuum as extroversion reliability is 0.62. Total items for extroversion were 8 from which 2 items, full of energy and talkative, were removed. Reliability for agreeableness is 0.67. Reliability for conscientiousness is 0.72, for openness to experience is 0.70 and for neuroticism reliability is 0.78. Impulsive buying scale is reliable at 0.89 whereas compulsive buying reliability is 0.76. Correlation and stepwise regression analysis is applied.

3. Results

Correlation is applied in order to check relationship among variables that is exhibit in following **Table 3**.

Correlation examination consequences among extroversion and impulsive buying in **Table 3** disclose that extroversion and impulsive buying are not significantly correlated because correlation coefficient value is 0.128 and $p = 0.070$. So H_{10} , which states there is no relationship between extroversion and impulsive buying, is accepted.

Correlation analysis also conducted for agreeableness and impulsive buying in **Table 3** exposes that agreeableness and impulsive buying are significantly correlated because

Table 2. Education frequency.

	Frequency	Percent	Valid percent	cumulative percent
	Matric	4	2.0	2.0
	Intermediate	8	4.0	6.0
Valid	Bachelor	100	50.0	56.0
	Master	76	38.0	94.0
	M.Phil.	12	6.0	100.0
	Total	200	100.0	100.0

correlation coefficient value is 0.254 and significant because $p = 0.000$.

According to Results of correlation analysis between conscientiousness and impulsive buying behavior, conscientiousness has insignificant correlation with impulsive buying behavior where the value of correlation 0.109 and $p = 0.124$. Hence, **H3₀** which states that there is no relationship between conscientiousness and impulsive buying behavior is accepted. Correlation analysis also conducted between neuroticism and impulsive buying behavior. According to results neuroticism is positively correlated with impulsive buying as the value of correlation coefficient is 0.539 that is significant at p value = 0.000.

Table 3. Correlation coefficients.

		MEANIMP	MEANCOM	MEANAcon	MEANagree	MEANNEURO	MEANOPEN	MEANEXT
MEANIMP	Pearson Correlation	1	0.217**	0.109	0.254**	0.539**	0.328**	0.128
	Sig. (2-tailed)							
	N							
MEANCOM	Pearson Correlation		1	-0.387**	.213**	.257**	0.260**	-0.184**
	Sig. (2-tailed)							
	N							
MEANcon	Pearson Correlation			1	0.616**	-0.515**	0.621**	0.489**
	Sig. (2-tailed)							
	N							
MEANagree	Pearson Correlation				1	-0.442**	0.587**	0.522**
	Sig. (2-tailed)							
	N							
MEANNEURO	Pearson Correlation					1	-0.367**	-0.244**
	Sig. (2-tailed)							
	N							
MEANOPEN	Pearson Correlation						1	0.465**
	Sig. (2-tailed)							
	N							
MEANEXT	Pearson Correlation							1
	Sig. (2-tailed)							
	N							

** . Correlation is significant at the 0.01 level (2 tailed).

Correlation analysis between openness to experience and impulsive buying behavior shows that openness to experience is significantly correlated with impulsive buying behavior. Correlation coefficient value is 0.328 and $p = 0.000$.

According to results of correlation analysis between impulsive buying behavior and compulsive buying behavior, there is positive correlation between impulsive buying and compulsive buying that is significant at correlation coefficient value =0.217 and $p = 0.002$.

Correlation analysis between extraversion and compulsive buying behavior of an individual also conducted. Results describe that extrovert personality trait is in negative correlation with compulsive buying where correlation value is -0.184 and significant at $p = 0.009$.

Correlation analysis was also conducted between agreeableness and compulsive buying behavior of a consumer. According to results agreeableness is negatively but significantly related with compulsive buying behavior. Correlation coefficient value is -0.213 and $p = 0.002$.

Correlation analysis between conscientiousness and compulsive buying behavior shows that there exist negative correlation as correlation coefficient value is -0.387 which is significant because $p = 0.000$.

According to results of correlation analysis between neuroticism and compulsive buying behavior, neuroticism significantly and positively correlate with compulsive buying because correlation coefficient value is 0.257 and $p = 0.000$.

Correlation analysis between openness to experience and compulsive buying behavior demonstrate that openness to experience is significantly and positively correlated with compulsive buying. Correlation coefficient value is 0.260 and $p = 0.000$.

After correlation analysis assumptions of regression are tested. In order to check normality of data skewness and kurtosis has been checked and values falled between -1 and +1. Normality conditions for openness to experience, neuroticism, conscientiousness, agreeableness, extraversion, impulsive buying behavior and compulsive buying behavior are fulfilled.

In order to check multicollinearity test of tolerance and VIF test are applied. Value of tolerance is 0.999 that is fewer than 1 and value of VIF is 1.00 which is also under control because this value is less than 10.

Durbin Watson technique is used in order to assess autocorrelation. The values of autocorrelation must be between 1.5 and 2.5 (Durbin, 1970) [19].Data fulfilled all these conditions.

H2. There is a relationship between agreeableness and impulsive buying.

The relationship between agreeableness and impulsive buying behavior is examined (Table 4). The value of R^2 is 0.065 that means 7 percent variation in impulsive buying behavior is because of agreeableness trait of a customer that is significant because $p = 0.000$. If p value is less than $\alpha = 0.05$ than model is considered to be significant. The value of $\beta = 0.254$ explain if agreeableness trait of a customer change its value by one unit, then impulsive buying will increase by 0.254 units on average. The value of β is signifi-

cant because p vale is less then alpha. So H2 is accepted that relationship exists between agreeableness and impulsive buying behavior of a customer.

H4. There is a relationship between neuroticism and impulsive buying.

The relationship between neuroticism and impulsive buying behavior was also examined (Table 4). The value of is 0.214 that means about 25 percent change in impulsive buying behavior is because of neuroticism that is significant because the value of p is significant. The value of β is 0.330 that means if neuroticism changes its value by one unit then impulsive buying will increase by 0.330 units on average. Thus H4 which claims that there neuroticism is related with impulsive buying is accepted.

H5. There is a relationship between openness to experience and impulsive buying.

Relationship of openness to experience and impulsive buying behavior is examined (Table 4). The value of = 0.107 that means 10.7 percent variation in impulsive buying behavior is because of openness to experience that is significant because p value is less then α p = 0.000. The value of β is 0.328 that means if openness to experience trait change its value by one unit then impulsive buying will increase by .328 units on average. The value of β is significant because p = 0.000. So H5 is accepted that claims openness to experience is related with impulsive buying behavior

H6. There is a relationship between impulsive buying and compulsive buying.

The relationship of impulsive buying behavior and compulsive buying behavior is also investigated by controlling demographic variables. According to ANOVA test results all demographic variables are significantly related with compulsive buying behavior. Relationship results among demographic variables and compulsive buying behavior demonstrate that the value of is 0.059 and the value of change is also 0.059.

The relationship of impulsive buying with compulsive is investigated in step-2 by controlling the effect of demographic variables (Table 5). The value of is 0.098 that is declined by .059 and reached to the value .039 which is significant because $\beta = 0.231$ and p = 0.005. It can be articulated that if impulsive buying behavior changed itself by one unit then compulsive buying will increase by .231 units on average. Hence, H6 is accepted that claims the relationship between impulsive buying behavior and compulsive buying behavior.

H7. There is a relationship between extroversion and compulsive buying.

The relationship of extroversion and compulsive buying behavior is also investigated after controlling the effect of demographics (Table 5). The value of is 0.091 that is

Table 4. Regression results.

	Impulsive buying	
	R ²	β
Predictors main effects		
Agreeableness	0.065***	0.254***
Openness to experience	0.107***	0.328***
Neuroticism	0.214***	0.330***

*** represents significant relationship.

Table 5. Regression results with control variables.

	Compulsive Buying			p
	β	Change		
Step-1 Control Variables (Customer's Demographics)		0.059	0.059	
Step-2 Impulsive buying	0.231	0.098	0.039	0.005
Extroversion Customer Personality Trait	-0.190	0.091	0.032	0.001
Conscientiousness Customer Personality Trait	-0.364	0.182	0.123	0.000
Agreeableness Customer Personality Trait	0.210	0.101	0.043	0.000
Neuroticism Customer Personality Trait	0.281	0.134	0.076	0.000
Openness to Experience Customer Personality Trait	0.329	0.154	0.095	0.000

reduced by 0.059 and change value is 0.032 that is significant at $\beta = -0.190$ and $p = 0.001$. It means if extroversion personality trait changes its value by one unit compulsive buying will decrease by 0.190 units on average.

H8. There is a relationship between agreeableness and compulsive buying.

The relationship of agreeableness and compulsive buying behavior is also investigated after with controlled effect of demographic variables (Table 5). Results show that the value of is 0.210 after declining by 0.059 the value of change is 0.042. These results are significant because $\beta = 0.210$ and $p = 0.000$. It means if agreeableness trait is changed by one unit compulsive buying will increase by 0.210 units on average. As a result, H8 is accepted which claims that there is an association between agreeableness and compulsive buying.

H9. There is a relationship between conscientiousness and compulsive buying.

Relationship of conscientiousness and compulsive buying is investigated in step-2 after controlling the effect of demographic variables. Results demonstrate that the value of is 0.182 that is condensed by 0.059 and the value of change is 0.123. These results are significant at $\beta = -0.364$ and $p = 0.000$. It means if conscientiousness is changed by one unit the compulsive buying will decrease by 0.364 on average. Therefore, H9 is accepted which claims that relationship exist between conscientiousness and compulsive buying behavior.

H10. There is a relationship between neuroticism and compulsive buying.

In step-2, the association between neuroticism and compulsive buying is investigated by controlling the effect of demographic variables in step-1. Outcomes show that the value of is 0.134 declined by 0.059, the value of change is 0.075. These outcomes are significant because $\beta = 0.281$ and $p = 0.000$. It means if neuroticism characteristic altered by one unit then compulsive buying will increase by 0.281 units on average. As a result, H10 is accepted that claims the existence of relationship between neuroticism and compulsive buying behavior.

H11. There is a relationship between openness to experience and compulsive buying.

The relationship of openness to experience and compulsive buying behavior is also investigated by controlling the effect of demographic variables in step-2. According to

results, the value of is 0.154 and dropped by 0.059, the value of change is 0.095. These results are significant because $\beta = 0.329$ and $p = 0.000$. It means if openness to experience changed by one unit then compulsive buying behavior is increased by 0.329. Hence, H11 is accepted that there exists a relationship between openness to experience and compulsive buying behavior.

H12. Impulsive buying mediates the relationship between extroversion and compulsive buying.

In order to test mediating role of impulsive buying between extroversion and compulsive buying behavior, direct relationships of variable are examined first. Relationship of extroversion and impulsive buying behavior is examined (H1) and found to be insignificant. Relationship of impulsive buying behavior and compulsive buying behavior (H6) is found to be significant. The impact of extraversion personality trait on compulsive buying (H7) is also found to be significant.

According to Baron and Kenny (1986) [20], mediation is possible to investigated only when all three requirements are fulfilled. Hence H12 is rejected that claims the mediating role of impulsive buying between extroversion and compulsive buying behavior.

H13. Impulsive buying mediates the relationship between agreeableness and compulsive buying.

The relationship between agreeableness and impulsive buying behavior (H2) is examined and found to be significant. The relationship between impulsive buying behavior and compulsive buying behavior (H6) is also significant. The impact of agreeableness on compulsive buying behavior (H8) is significant as well. When all the conditions of mediation according to Baron and Kenny (1986) are fulfilled then mediation is investigated. According to results (Table 6), the value of β is 0.210 is converted to -0.207 . change value from 0.101 to 0.054 and the value of change 0.043 converted to 0.015. These results are significant because $\beta = 0.207$ and $p = 0.100$. So both conditions of mediation are met H13 is accepted which claims the mediating role of impulsive buying between agreeableness and compulsive buying behavior.

H14. Impulsive buying mediates the relationship between conscientiousness and compulsive buying.

The relationship of conscientiousness with impulsive buying is examined (H3) and found to be insignificant. The relationship of impulsive buying with compulsive buying (H6) is found to be significant. The impact of conscientiousness on compulsive buying is also examined and found to be significant (H9).

When all three conditions of mediation were not fulfilled according to Baron and Kenny (1986) mediation was not investigated. Hence, H14 is rejected which claims that impulsive buying play a mediating role between conscientiousness and compulsive buying behavior.

H15. Impulsive buying mediates the relationship between neuroticism and compulsive buying.

The relationship between neuroticism and impulsive buying behavior is examined (H4) and found to be significant. Impact of impulsive buying behavior and compulsive

buying behavior is also examined (H6) and found to be significant. The influence of neuroticism on compulsive buying behavior is also significant (H10).

When all the conditions are fulfilled mediation is investigated, where the value of β is changed from 0.281 to 0.209. The value of β changed from 0.134 to 0.124 and the value of change lowered from 0.076 to 0.029. These results are significant because $\beta = 0.209$ and $p = 0.060$ (Table 7). Hence H15 which states that impulsive buying behavior mediates the relationship between neuroticism and compulsive buying behavior is accepted.

H16. Impulsive buying mediates the relationship between openness to experience and compulsive buying.

The relationship between openness to experience with impulsive buying behavior is examined (H5) and found to be significant. The relationship between impulsive buying behavior and compulsive buying behavior is also found to be significant (H6). Afterwards, the relationship of openness to experience with compulsive buying behavior (H11) is examined and found to be significant as well.

When all the conditions of mediation are fulfilled then mediation is investigated. According to results the value of β is changed from 0.329 to 0.310 (Table 8). The value of β changed from 0.154 to 0.059. The value of change lowered from 0.095 to 0.020. These results are significant because $\beta = 0.310$ and $p = 0.090$. Hence H16 is accepted that states there is mediating role of impulsive buying between openness to experience and compulsive buying behavior.

Table 6. Mediation-1.

	Compulsive Buying			
	β	Change	p	
Main Effects				
Agreeableness Customer Personality Trait	0.210	0.101	0.043	0.000
Mediation-1				
Step-1 Control Variables		0.059	0.059	
Step-2 Impulsive Buying	0.231	0.098	0.039	0.005
Step-3 Agreeableness Customer Personality Trait	0.207	0.054	0.015	0.100

Table 7. Mediation 2.

	Compulsive Buying			
	β	Change	p	
Main Effects				
Neuroticism Customer Personality Trait	0.281	0.134	0.076	0.000
Mediation-4				
Step-1 Control Variables		0.059	0.059	
Step-2 Impulsive Buying	0.231	0.098	0.039	0.005
Step-3 Neuroticism Customer Personality Trait	0.209	0.124	0.029	0.060

4. Discussion and Conclusions

According to results individuals who score higher on agreeableness personality trait, neuroticism trait, and openness to experience trait can be compulsive buyer with existing propensity of impulsivity (Figure 1). These buyers do shopping on impulse and if this impulse control accumulates then it converts into compulsive buying. Such transition in buying behavior is quite difficult to face not only for the buyer but also for the family of buyer. These outcomes are in accordance with Eysenck (1985) [21], Badgaiyan (2014) [22], Donnelly (2012), Herabadi (2001) [23], and McCrae & Costa (2008) [24].

Conscientiousness has insignificant relationship with impulsive buying because these sorts of buyers plan their spending carefully. Conscientious personality trait has negative relationship with compulsive buying because more a person becomes responsible, there are less chances of his compulsive buying. Neurotic personalities are emotionally instable so they purchase on the spur of the moment mostly. They want to become socially acceptable. Basically neuroticism is primary response of stress that is why these buyers purchase without prior planning and in excessive quantity in order to reduce their stress. These outcomes are in harmony with Mueller (2015) [25], Koran (2006) [26], Donnelly (2012) and Sun (2004) [6].

Table 8. Mediation-3.

	Compulsive Buying			p
	β	Change		
Main Effects				
Openness Customer Personality Trait	0.329	0.154	0.095	0.000
Mediation-2				
Step-1 Control Variables		0.059	0.059	
Step-2 Impulsive Buying	0.231	0.098	0.039	0.005
Step-3 Openness Customer Personality Trait	0.310	0.059	0.020	0.090

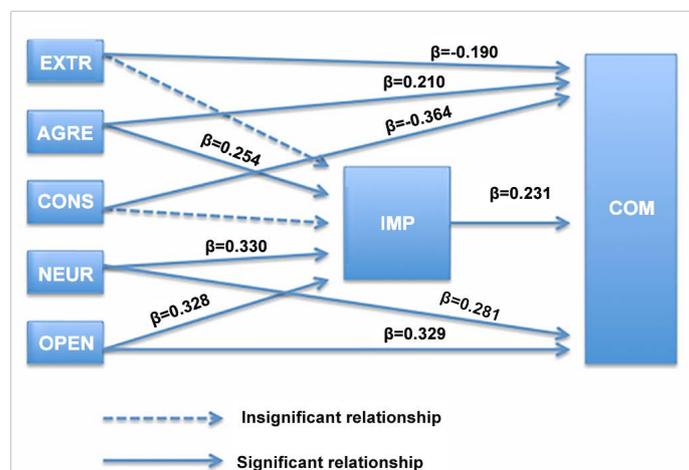


Figure 1. Model.

There are some limitations of this study as well. First limitation of this study is “convenience-sampling” method. For this investigation data was required from actual customers and this method was convenient to use. As a replacement of this sampling method cluster sampling or quota sampling could be used for data collection. Second, some other sectors like shoes industry, banking industry or car industry may also be considered for investigation other than apparel brands. Larger sample size and inclusion of some moderating variables will also help for better understanding.

In spite limitations, this study contributes in consumer behavior literature and help in understanding the nature of personality traits with resulting buying behavior. In this way, this also studies an addition to the literature of consumer psychology. On the other hand, this investigation is also useful for institutions, policy makers and consumers. Institutes can educate and demotivate this sort of abnormal buying behavior by educating resulting outcomes. Public policy officials and consumer welfare societies can be benefited from this study in order to develop guidelines for marketers and retailers so that they can align their marketing strategies along with some ethical standards. Additionally, suitable social marketing interventions for example counseling and guidance can be formulated in order to tackle increasing ratio of consumer debts because of compulsive buying behavior.

Consumers can have knowledge about this abnormal buying behavior and can access either they are going to lack their impulse control or not.

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