

M.A. IN PSYCHOLOGY (MAPC)**Term-End Examination****December, 2014****MPC-006 : STATISTICS IN PSYCHOLOGY***Time : 2 hours**Maximum Marks : 50*

*Note : Answer **any five** questions. Use of simple calculator is permitted. All questions carry **equal** marks.*

1. What are the various assumptions underlying Parametric and non-Parametric Statistics ? **10**
2. Describe briefly the significance of the difference between the means of two independent samples. Find out whether the two groups differ significantly on the IQ scores given below. **3+7**

Groups	IQ scores	SD
A	120	2.0
B	140	6.0
N = 25		25

3. Differentiate between descriptive and Inferential Statistics with suitable examples. **10**
4. State the various forms of graphical presentation of Data. **10**

05965

5. How do we determine the strength of relationship between two variables ? Find out R_{hvc} (Spearman's rank correlation) for the following data. 3+7

	X	Y
1	7	8
2	11	16
3	16	14
4	9	12
5	6	8
6	17	16
7	7	9
8	11	12
9	5	7
10	14	15

6. When do we use partial and multiple correlations ? Write the regression equation for the following. 3+7

Academic achievement	Anxiety
x	y
1	4
3	2
4	1
5	0
8	0

7. Elucidate the concept of Normal curve and its properties. 10

8. Describe standard error of the mean for large and small sample. 10
9. When do we use Kruskal Wallis Analysis of variance ? What relevant background information do you require on Kruskal Wallis ANOVA test ? 5+5
10. Write short notes on **any two** of the following : 5+5
- (a) Chi-square test
 - (b) Skewness
 - (c) Variance and Covariance : Building blocks of correlations
 - (d) Regression
 - (e) one-tail and two-tail test.
-