M.A. IN PSYCHOLOGY (MAPC)

Term-End Examination

December, 2013

MPC-006 : STATISTICS IN PSYCHOLOGY

Time : 2 hours   *Maximum Marks : 50*

Note :   *Answer **any five** questions.   Each question carries*
            ***10** marks.   Only simple calculator is **permitted**.*

1. Define statistics and differentiate between   **2+8**
    descriptive and inferential statistics.

2. What do you mean by decision errors ? Discuss   **6+4**
    applications of one-tailed and two - tailed
    hypothesis tests in statistics.

3. From the following data, find Rank-Difference   **10**
    Coefficient of correlation :

Student	Score on Test I	Score on Test II
	X	Y
A	10	16
B	15	16
C	11	24
D	14	18
E	16	22
F	20	24
G	10	14
H	8	10
I	7	12
J	9	14
N=10		

4. Define regression ? Differentiate between linear **2+8** and multiple regression by citing example.

5. Discuss the level of measurement with suitable **10** examples.

6. What do you mean by non-parametric **2+8** statistics ? Discuss advantages and disadvantages of non-parametric statistics.

7. What do you mean by two sample tests ? Write **10** step by step procedure for Wilcoxon test for small sample.

8. What are assumptions of Analysis of Variance ? **4+6** Discuss uses and limitations of ANOVA.

9. Write short notes on *any two* of the following : **10**

   (a) Type I Error

   (b) Level of significance

   (c) Alternative hypothesis

10. Calculate simple regression from the following **10** raw scores. and set up regression for predicting Y from X, and also X from Y.

X	Y	X^2	Y^2	XY
10	12	100	144	120
11	18	121	324	198
12	20	144	400	240
9	10	81	100	90
8	10	64	100	80
50	70	510	1068	728
X	Y	X^2	Y^2	XY
		N = 5.		

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