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MASTER OF ARTS (PSYCHOLOGY)**Term-End Examination****June, 2018****MPC-006 : STATISTICS IN PSYCHOLOGY****Time : 2 hours****Maximum Marks : 50****Note : (i) All sections are compulsory.****(ii) Use of simple calculator is permitted.****SECTION - A**

Answer any two of the following questions in
about 450 words each : 2x10=20

1. What is inferential statistics ? Discuss in detail Hypothesis Testing. 3+7
2. Explain the concept and theoretical base of normal curve. Elucidate the properties of normal probability curve. 4+6
3. Define outliers. Compute only Spearman's Rho for the following data : 2+8

Data A	5.0	5.9	6.0	5.7	5.6	5.5	4.9	3.6	4.0
Data B	53	50	49	55	63	60	64	69	70

4 Compute ANOVA for the following data : 10

Group 1	3	2	2	2	3	3	2	2	2
Group 2	1	1	1	2	2	1	1	1	1
Group 3	2	2	4	4	4	4	2	3	3

Critical value : 19.45 at 0.05 level of significance
99.46 at 0.01 level of significance

SECTION - B

Answer any four of the following questions in
about 250 words each : **4x6=24**

5. Discuss classification as a technique for organising the data. 6
6. Compute Mann Whitney U test for the following data : 6
Group A : 54, 76, 80, 69, 68, 52, 42, 49
Group B : 74, 72, 70, 56, 62, 45, 50, 48
7. Compute chi square for the following data : 6

Responses

	Agree	Disagree	Total
Male	20	30	50
Female	30	70	100
Total	50	100	150

Critical value : 3.841 at 0.05 level of significance
6.635 at 0.01 level of significance

8. Compute regression equation for X and Y based on the following data : 6

Individuals

	A	B	C	D	E
X	2	3	2	5	8
Y	3	2	4	1	10

9. Describe various levels of measurement with suitable examples. 6

SECTION - C

Write short notes on any two of the following in about 100 words each : 2x3=6

10. Type I and Type II errors 3
11. Phi Coefficient 3
12. One-tailed and Two-tailed hypothesis tests 3
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