E – 5088

Reg. No. : ....

Name : ....

Second Semester M.A. Degree Examination, October 2018
Branch : HUMAN RESOURCE MANAGEMENT
H.R.M. 2.2.3 : Statistics for Management
(2014 Admission Onwards)

Time : 3 Hours

Max. Marks : 75

PART – I

Answer **all** the questions. **Each** answer **not** to exceed **50** words. **All** questions carry **equal** marks.

(10×2=20 Marks)

1. Name four non-parametric tests used in research.

2. Define hypothesis.

3. What are non-parametric Statistics ?

4. What is level of significance in a hypothesis test ?

5. Define Range.

6. Define Type I and Type II error.

7. What is Correlation Coefficient ?

8. What is Simple Regression ?

9. Define SPSS.

10. Explain parametric test.

PART – II

Answer **any five** questions. **Each** answer **not** to exceed **500** words. **All** questions carry **equal** marks. **(5×5=25 Marks)**

11. Explain the properties of Regression lines and give the equation to find out the angel between them ?

12. What are the differences of non-parametric methods and parametric methods ?

13. What is the difference between t-test and chi-square test ?

14. Describe procedures of testing hypothesis ?

15. What is Regression analysis ? How does it differ from Correlation analysis ?

16. What are the assumptions in ANOVA ?

17. Name the top 5 Statistical analysis software products ? Differentiate between SPSS and SAS.

18. Explain the essential characteristics of Central Tendency.

PART – III

Answer **any two** questions. **Each** answer **not** to exceed **1200** words. **All** questions carry **equal** marks. **(2×15=30 Marks)**

19. From the following data find :
    i) The two regression equations.
    ii) The coefficient of correlation between the marks in Economics and Statistics.
    iii) The most likely marks in Statistics when marks in Economics are 30.

Marks in Economics x	25	28	35	32	31	36	29	38	34	32
Marks in Economics y	43	46	49	41	36	32	31	30	33	39

20. Find the Rank Correlation Coefficient from the following data :

Rank in X	1	2	3	4	5	6	7
Rank in Y	4	3	1	2	6	5	7

21. Find the value of λ^2 for the following information.

Class	A	B	C	D	E
Observed frequency	8	29	44	15	4
Expected Frequency	7	24	38	24	7

22. The following data give the yields in Kilograms of a number of varieties of tapioca

Variety

1	20.0	19.3	22.7	23.5	21.8
2	18.6	20.2	16.4	22.8	18.2
3	21.8	20.5	18.7	22.4	19.3
4	23.7	20.4	19.3	20.3	22.1
5	18.7	19.6	16.8	15.7	16.9

Carry out the analysis of Variance and give your comments based on the analysis.

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