Reg. No. : ....

Name : ....

Second Semester M.A. (Human Resource Management) Degree Examination, August 2017
HRM 2.2.3 : STATISTICS FOR MANAGEMENT
(2014 Admission Onwards)

Time : 3 Hours   Max. Marks : 75

PART – I

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

1. Define statistics. State its functions.

2. What is classification ? How is it different from Tabulation ?

3. Distinguish between Pictograms and Cartograms.

4. What is Mode ? State its merits.

5. What is quartile deviation ? State its two demerits.

6. Differentiate between correlation and regression.

7. Explain the different types of errors in hypothesis testing.

8. Distinguish between parametric and non parametric tests.

9. What is Skewness ? State two symptoms of Skewness.

10. What is ANOVA test ?   (10×2=20 Marks)

PART – II

Answer **any five** questions. **Each** answer **not** to exceed **500** words. **All** questions carry **equal** marks.

11. Explain the utility of statistics as a managerial tool.

12. Define Tabulation. What are the different parts of a table ? Draft the format of a table to show the distribution of population according to age, literacy, sex and marital status.

P.T.O.

13. What is a bar diagram ? Explain the different types of bar diagrams.

14. Give a brief note of the measures of Central tendency together with their merits and demerits.

15. Calculate the lower and upper quartiles, from the following data :

Central values :	2.5	7.5	12.5	17.5	22.5
Frequency :	7	18	25	30	20

16. From the following data calculate the coefficient of variation :

    Karl Pearson's coefficient of skewness = 0.42

    Arithmetic Mean = 86

    Median = 80

17. 10 workers are selected at random from a large number of workers in a factory. The number of items produced by them on a certain day are found to be :

    51, 60, 52, 59, 53, 55, 56, 58, 57. Test whether mean of the number of items produced in the population is 58 ? (5% value of 't' for df 9 is 2.262).

18. A Human Resource Manager is interested in trying to determine whether absenteeism is greater on one day of the week than on another. His records for the past year show this sample distribution :

Days of the week :	Monday	Tuesday	Wednesday	Thursday	Friday
No. of Absentees :	66	57	54	48	75

    Test whether the absence is uniformly distributed over the week. (Apply x^2 test).

    (5×5 =25 Marks)

PART – III

Answer **any two** questions. **Each** answer **not** to exceed **1200** words. **All** questions carry **equal** marks.

19. Discuss in detail the characteristics, scope and limitations of statistics.

20. What is a measure of dispersion ? Discuss four important measures of spread indicating their uses.

21. Samples of two different types of bulbs were tested for length of life and the following data were obtained :

	Type – A	Type – B
Sampe size	8	7
Sample mean	1234 hours	1136 hours
Sample standard deviation	36 hours	40 hours

Is the difference in the means significant ?

22. The following table shows the ages (X) and Weights (Y) of 8 persons.

X :	25	47	65	72	36	45	63	52
Y :	33	60	43	79	25	51	53	62

Obtain the regression equation of Y on X and find the expected weight of a person who is 49 years old.   **(2×15=30 Marks)**

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