Reg. No. : ....

Name : ....

Second Semester M.A. Human Resource Management Degree Examination, August 2015
(2013 Admissions)
PM 2.2.4./HRM 2.2.4: RESEARCH AND STATISTICS FOR MANAGEMENT
(Common for M.A. Degree in Personnel Management – Prior to 2013 Admissions)

Time : 3 Hours   Max. Marks : 75

PART – A

Answer **any five** of the following. **All** questions carry **equal** marks. **Each** answer **not** to exceed **300** words.

1. Define Research. Discuss the different objectives of social research.

2. What do you mean by problem formulation ? What are its objectives ? Also state the criteria of a good research problem.

3. Define Research design. Explain the need for and criteria for research design.

4. What is a Questionnaire ? State the general qualities of a good questionnaire. What are the limitations of it ?

5. What do you mean by scaling ? Discuss the important scaling techniques used in research.

6. The data below give the yearly profits (in thousand rupees) of two companies :
   A and B.

Year	Profits (in '000 Rs.)	
	Company A	Company B
2009 – 10	120	90
2010 – 11	135	95
2011 – 12	160	120
2012 – 13	140	108
2013 – 15	179	130

Represent the data by means of a suitable diagram.

7. a) From the following data, compute arithmetic mean :

Marks :	0 – 10	10 – 20	20 – 30	30 – 40	40 – 50	50 – 60
No. of Students :	5	10	25	30	20	10

   b) Calculate the mean deviation from the following data :

x :	10	11	12	13	14
f :	3	12	18	12	3

8. Given below are the figures of production (in thousand tonnes) of a steel factory :

Year :	2008	2009	2010	2011	2012	2013	2014
Production (in thousand tonnes) :	40	45	46	42	47	50	46

Fit a straight line trend by the least squares method and tabulate the trend.

(5×6 = 30 Marks)

PART – B

Answer **any three** of the following. **All** questions carry **equal** marks. **Each** answer **not** to exceed **1500** words.

9. Explain briefly the different steps involved in a research process.

10. What is sampling ? State its advantages. Discuss briefly the different sampling methods.

11. Define statistics. What are its characteristics ? Discuss also the functions and limitations of statistics.

12. From the following data obtain the two regression equations using the method of Least Squares.

    X : 5 7 9 8 11

    Y : 2 4 6 8 10

13. a) A die is thrown 132 times with the following results :

Number turned up :	1	2	3	4	5	6
Frequency :	16	20	25	14	29	28

    Is the die unbiased ? (Use χ^2 test)

    b) Prices of shares of a company on the different days in a month were found to be : 71, 70, 63, 64, 68, 69, 70, 69, 65, 66. Discuss whether mean price of the shares in the month is 65. **(3×15 = 45 Marks)**

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