



70

Reg. No. : .....

Name : .....

**Second Semester M.A. in Human Resource Management Degree  
Examination, September 2014  
224 – RESEARCH AND STATISTICS FOR MANAGEMENT  
(2013 Admn.)  
(Common for M.A. Degree in Personnel Management – Prior to 2013  
Admns.)**

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. What are the important postulates of scientific method ?
2. Distinguish between research question and objective. Explain the process of setting objectives for a research study.
3. What are the major aspects of research design ? Bring out the salient features of experimental design.
4. Distinguish between primary and secondary sources of data. What are projective techniques ?
5. Distinguish between multiple bar diagram and pie charts. How are they interpreted ?
6. The following table gives the cumulative frequency distribution of the marks obtained by a sample of 136 students in a paper Business Economics. Find the variance and standard deviation.

Marks obtained Less than :	25	30	35	40	45	50	55	60	65	70	75
Number of Students :	4	7	18	36	61	86	107	117	129	134	136

7. Find the equation of regression and the regression coefficient from the following data.

Age of husband	10	12	13	12	16	15
Age of wife	40	38	43	45	37	43

Also, estimate husband's age when wife's age is 40.



8. Find the missing frequencies in the following frequency distribution. The mean of the given data is 11.09.

Class	Frequency	Class	Frequency
9.3 – 9.7	2	11.3 – 11.7	14
9.8 – 10.2	5	11.8 – 12.2	6
10.3 – 10.7	$F_3$	12.3 – 12.7	3
10.8 – 11.2	$F_4$	12.8 – 13.2	1

(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 in detail the different methods and applications of social surveys. What are the advantages of using surveys ?
10. Explain the issues associated with measuring attitudes. What is a Likert scale ? Mention its advantages and disadvantages.
11. Explain the different statistical tests used for testing research hypotheses. How interpretations of values are made ?
12. De-trend the following time series data using a suitable moving average. Justify the choice of the length of the moving average and mention the time series model you would use.

2000	2001	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
919	941	969	985	1633	1073	1073	1065	1085	1113	1141	1157	1145	1125

13. Following are the weekly sale records of three salespersons A, B and C of a company during 13 sale calls :

<b>A</b>	300	400	300	500
<b>B</b>	600	300	300	400
<b>C</b>	700	300	400	600

Test whether the sales of three salesmen are different.

(3×15=45 Marks)