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Reg. No. :

Name :

Second Semester M.A. Degree Examination, July 2013
PERSONNEL MANAGEMENT
PM 2.2.4 : Research and Statistics for Management

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 social research. Mention the significance of research in Human Resources Management.
2. What are variables and attributes in research ? Enlist the different types of variables.
3. Distinguish between assumptions and hypotheses. What are the characteristics of a usable hypothesis ?
4. State the merits and demerits of questionnaire as a tool for collection of data.
5. Distinguish between random sampling and cluster sampling. What is meant by sampling error ?
6. Compute median for the distribution provided below :

Class	0 – 5	5 – 10	10 – 15	15 – 20	20 – 25	25 – 30	30 – 35
Frequency	5	8	12	15	20	12	8

7. The following data represent the HRM marks for a random sample of 12 students along with their scores on an intelligence test. Find whether there exists any relationship between HRM marks and the intelligence scores.

HRM Marks	65	50	55	65	55	70	65	70	55	70	50	55
Intelligence Test Scores	85	74	76	90	85	87	94	98	81	91	76	74



8. De-trend the following time series data using a suitable moving average. Also, mention the time series model you would use.

1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
974	996	1024	1040	1688	1128	1128	1120	1140	1168	1196	1212	1200	1180

(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 the different research designs. Select a research problem and explain how an experimental design could be developed for conducting research on that.
10. Explain the process of establishing the validity and reliability of a newly developed tool for data collection.
11. Discuss the different types of diagrammatic and graphic representation of statistical data used in management research.
12. Find the coefficient of variation for the following data :

Class	0 – 10	10 – 20	20 – 30	30 – 40	40 – 50	50 – 60
Frequency	8	12	18	14	6	2

13. For the data given below examine whether Fischer formula and Paacche formula satisfy factor reversal test

Commodities	2005		2008	
	Price	Quantity	Price	Quantity
A	2	3	3	2
B	8	2	9	3
C	5	5	6	5
D	4	2	5	3
E	3	4	4	2

(3×15=45 Marks)