



Reg. No. :

Name :

Second Semester M.A. Degree Examination, June 2008
Branch : Personnel Management
(New Scheme – 2006 admn.)
PM 2.2.4 : Paper – IV : RESEARCH AND STATISTICS FOR
MANAGEMENT

Time : 3 Hours

Max. Marks : 75

PART – A

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

1. What is the necessity of defining a research problem ? Explain the various steps involved in formulating a research problem.
2. Enumerate and explain the various sources of hypothesis.
3. What do you mean by pilot study ? What are the methods used for a pilot study ?
4. Explain the different types of measurement.
5. Explain ANOVA and its application.
6. Write short notes on :
 - a) Inductive logic
 - b) Reliability of scales

P.T.O.



7. The following table gives the marks of 58 students in Business Statistics. Calculate the average marks of this group.

Marks	Number of Students
0 – 10	4
10 – 20	8
20 – 30	11
30 – 40	15
40 – 50	12
50 – 60	6
60 – 70	2
Total	58

8. The data on aptitude score and productivity index of five workers in a factory are given below :

Workers	A	B	C	D	E
Aptitude Score	2	3	4	5	6
Productivity Index	7	9	10	14	15

Calculate the Karl Pearson's coefficient of correlation for the above data.

PART – B

Answer any **three** questions, each in about **1500** words. **Each** question carries **15** marks.

9. Rahim and Kumar are salesmen employed by a pharmaceutical company. Recently it conducted a sample survey yielding the following data :

	Rahim	Kumar
Number of sales	20	22
Average weekly sales (Rs. lakh)	30	25
Standard deviation (Rs. lakh)	10	7

Is there any significance difference between the average sales of Rahim and Kumar at $\alpha = 0.05$ level of significance ?



10. Bill soft, a Kerala based IT company has development centres at Technopark and Infopark. An employee satisfaction survey was conducted at the two centres and the data obtained are shown as follows :

Number of Employees by degree of satisfaction

Satisfaction levels	Technopark	Infopark	Total
High Satisfaction	50	70	120
Low Satisfaction	90	110	200
Low Dissatisfaction	160	130	290
High Dissatisfaction	200	190	390
Total	500	500	1000

Is there any significant variation among the centres in the satisfaction levels of the employees at 5% level of significance.

- 11. Explain the diagrammatic presentation of data.
 - 12. What are the various stages in a research report ?
 - 13. Explain in detail the various research designs in social sciences research.
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