



Reg. No. :

Name :

Second Semester M.A. Degree Examination, September 2010

PERSONNEL MANAGEMENT

PM 224 : Research and Statistics for Management

Time : 3 Hours

Max. Marks : 75

PART - A

Answer **any five** questions. All carries **equal** marks. Each answer **not** to exceed **300** words.

1. What is the use experimentation in Research ?
2. Define standard deviation. What is its use in statistics ?
3. What is meant by Correlation ? Explain any two methods used to find out correlation between variables.
4. Explain Stratified Random Sampling. How it is different from Simple Random Sampling ?
5. What is ANOVA ? Describe the use of ANOVA in data analysis.
6. What are projective techniques ?
7. Compute mode for the following data :

Class	100 – 110	110 – 120	120 – 130	130 – 140	140 – 150	150 – 160	160 – 170
Frequency	12	16	26	20	16	14	10

8. An HR manager in a bank has selected 10 employees randomly to study their potential performance. He has taken the performance appraisal results as the basis for analysis. The data is given below :

Ranking of potential	2	4	7	1	6	3	10	9	8	5
Actual ranks of performance	1	3	5	6	7	4	10	8	9	2

Using rank correlation co-efficient check whether the prediction of potential has any correlation with the actual performance of these employees.



PART - B

Answer **any three** questions. All carries **equal** marks. Each answer **not** to exceed **1500** words.

9. Elaborate any three methods used for collecting data for research. Substantiate your answer with suitable examples.
10. What are the components of a research report ? Explain the features of a good research report.
11. What is the importance of Problem Formulation in research ? Elaborate the different steps involved in the problem formulation process.
12. The target of performance met by three sales persons of an insurance company during the period last five years is given below :

Ram	88	68	89	92	103
Bharath	76	88	90	86	79
John	104	88	118	88	123

Use co-efficient of variation to check which sales person is more consistent in performance.

13. The following data gives the scores of an aptitude test conducted during the selection process a set of employees and the performance scores of these employees after a year. Develop a regression equation of performance (Y) on aptitude (X).

Score of aptitude test	86	93	95	104	139	180	165	147
Performance index	77	79	80	83	101	117	129	120