Reg. No. : ....

Name : ....

Second Semester M.A. Examination, August 2009
PERSONNEL MANAGEMENT
PM 2.2.4 : Research and Statistics for Management
(2006 Admns)

Time : 3 Hours

Max. Marks : 75

PART – A

Answer **any five** of the following. **All** carry **equal** marks. Answers **need** not exceed **300** words.

1. What are the characteristics of scientific method ? How is scientific method used in social research ?

2. What are concepts in research ? Why should a researcher operationally define a concept ?

3. What are the characteristics of a diagnostic design of research ?

4. What are the different types of tools used for data collection ? When is Focused Group Discussion used for data collection ?

5. Bring out the significance of reporting in research. What are the essential elements of a good research report ?

6. Calculate mean, median and mode from the marks obtained for ten students :

Class No. :	1	2	3	4	5	6	7	8	9	10
Marks :	23	32	25	38	56	12	32	38	48	70

7. What is coefficient of variation ? How is it calculated ? Calculate coefficient of variation to the following data :

Age of workers :	20-25	25-30	30-35	35-40
No.of Workers :	30	40	25	20

P.T.O.

8. What are the uses of t test ? Apply t test to the following :

$\overline{X1}$ = 61.71   S1 = 7.46   N1 = 305

$\overline{X2}$ = 69.38   S2 =5.16   N2 = 50

't' table value for one tailed test : alpha value 2.326 at 0.01 level.   (5×6=30 Marks)

PART – B

Answer **any three** questions. **All** carry **equal** marks. Answers need **not** exceed **1500** words.

9. "A problem well defined is problem half solved". Examine the merit of this statement by highlighting the importance of problem formulation in research.

10. Bring out the significance of graphic representation of data in research. Which are the most frequently used representations ?

11. What are the different types of hypotheses used in research ? How is hypothesis testing done?

12. Calculate the coefficient of correlation for the following data using Karl Pearson's method :

X – 35   31   56   49   18   16

Y – 65   61   53   55   33   21

13. Formulate a research study and make a proposal for studying the impact of intention to quit of employees on their organizational commitment levels in any outsourcing firm. Suggest suitable statistical tests also for analyzing data.

(3×15=45 Marks)