

Reg. No. : .....

21

(Pages : 2)

2818

Name : .....

**Second Semester M.A. Degree Examination, June 2007**

**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 a hypothesis ? What characteristics it must possess in order to be a good research hypothesis ?
2. Discuss the differences between reliability and validity.
3. What is causal research ? How will you infer causality ? Give examples.
4. Write notes on :
  - a) Objectivity in research
  - b) Pilot study.
5. What do you understand by analysis of variance ? Explain the basic assumption in it ?
6. Compare AP, GP and HP.
7. The following data give the savings bank account balances of nine sample households selected in a survey in Thiruvananthapuram Corporation. The figures are in Rupees : 745; 2,000; 1,500; 68,000; 461; 549; 3,750; 1,800; 4,795.  
Find the mean and the median for these data.
8. Find out Spearman's coefficient of correlation between the internal and external assessment of postgraduate management student's performance in a college.

Name of the students	A	B	C	D	E	F	G	H	I
Internal Assessment Marks (out of 100)	51	63	73	46	50	60	47	36	60
External Assessment Marks (out of 100)	49	72	74	44	58	66	50	30	35

P.T.O.

## PART – B

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

9. Good Tyre Company is engaged in manufacture of radial car tyres. Their mean life is 42,000 km with a standard deviation of 3,000 km. A change in the production process is believed to improve the quality of tyres. A test sample of 28 new tyres has a mean life of 43,500 km. Do you think that the new radial car tyres are significantly superior to the earlier one? Test the hypothesis at 5 percent level of significance.
10. A HR Manager is interested in assessing whether there is any association between gender and job stress among employees in his organization. The table below gives data on the frequencies of a random sample.

Levels of stress	Male	Female	Total
High	30	40	70
Moderate	50	20	70
Low	40	20	60
<b>Total</b>	<b>120</b>	<b>80</b>	<b>200</b>

Use an appropriate statistical test at a significant level of 5 percent to assess whether there is any association between the two factors.

11. Discuss the sampling methods used in research process. Highlight the merits and demerits of each method, use examples wherever necessary.
12. Discuss the importance of qualitative research methods. Explain the application of case study method in industrial setting.
13. Prepare a research proposal with all its key ingredients for the research problem "High attrition of employees in call centres".