

K. L. University
Pre-Ph.D. Examination
RESEARCH METHODOLOGY
[COMMON TO MATHS, PHYSICS & CHEMISTRY]
Model Paper

Max Duration: 3hrs

Max Marks: 100

Answer any FIVE questions: (5x20)

1. (a) What is research problem? Define the main issues which should receive the attention of the researcher in formulating the research problem. Give suitable examples.

(b) Discuss the format of thesis and dissertation.

2 (a) What is time series? Explain various components of time series.

(b) Fit a straight line traced by the method of least squares for the following data.

Year	: 2005	2006	2007	2008	2009	2010	2011
Production (in 1000 of tons):	77	88	94	85	91	98	100

3. (a) What are the various types of graphs used for presenting a frequency distribution?

(b) Explain the different ways of presenting the data.

4. (a) Describe the steps in sample design.

(b) A random sample of 200 measurements from an infinite population gave a mean value of 50 and a standard deviation of 9. Determine the 95% confidence interval for the mean value of the population.

5. What is meant by report? What are various stages of writing report?

6. (a) Distinguish between correlation and regression.

(b) Ten students got the following percentage of marks in the course principles of Economics and Statistics.

Roll No.	: 1	2	3	4	5	6	7	8	9	10
Marks in Economics:	78	36	98	25	75	82	90	62	65	39
Marks in Statistics :	84	51	91	60	68	62	86	58	53	47

Calculate the coefficient of Correlation.

7. (a) The following information is obtained concerning an investigation of 50 ordinary shops of small size.

	Shops		Total
	In town	In villages	
Run by Men	17	18	35
Run by Women	3	12	15
Total	20	30	50

Can it be inferred that shops run by women are relatively more in villages than in towns? Use ψ^2 test (ψ^2 value for one degree of freedom at 5% level of significance is 3.84)

(b) Discuss the characterization of materials by various spectroscopic techniques.

8. Explain the following terms.

a) Research reviews b) Monographs c) Census and sample survey d) Applications of spectra Analysis.

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