

**Second Year Examination of the  
Three -Year Degree Course, 2001**

(Faculty of Arts)

PSYCHOLOGY

Paper-I

(Research Methodology and Statistics)

Time : 3 Hours

[ Maximum Marks :70 ]

Attempt five questions in all.  
selecting at least one question from each unit  
All questions carry equal marks.

**UNIT-I**

1. (a) Define Problem. Explain sources of Problem. 4+10

**OR**

(b) Explain in brief criteria of good hypothesis. Formulate hypothesis of the following concepts: 6+8

(i) Learning.

(ii) Anxiety

(iii) Intelligence

(iv) Adjustment

## UNIT-II

2. (a) What is Variable? Name different types of variables. Explain them with the help of suitable example. 3+5+6

**OR**

(b) What is an Experiment? Define. Explain about techniques of experimental control. 4+10

## UNIT-III

3. (a) Calculate mean for the following frequency distribution and explain under what conditions mean is used:

Score s	Freque ncy
71-80	4
61-70	6
51-60	8
41-50	5
31-40	3
21-30	2
11-20	6
1-10	8
	N=42

10+4

**OR**

(b) Construct histogram of the frequency distribution given in Q. No. 3(a). 14

## UNIT-IV

4.(A) Calculate Standard Deviation for the following frequency distribution:

Score s	Frequency
100-109	3
90-99	4
80-89	5
70-79	18
60-69	6
50-59	1
40-49	2
	N=39

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**OR**

(b) Describe the properties of normal distribution.

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## UNIT-V

5.(a) Calculate Rank order co-relation for the following series:

Marks in English	Marks in Hindi
10	15
12	16
15	8
8	10
5	11
16	12

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**OR**

(b) Calculate the Chi-square for the following data:

	Pass	Fail	Total
(Boys)	12	13	25
(Girls)	10	5	15
	22	18	40

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