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s (a) What is no seems of variously?

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(2nd Semester)

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Chips **PSYCHOLOGY** 

( MAJOR ) Control

00430

Paper : C-PSY-04

Statistical Method for Psychological boquo mun , g Research I ) Missinusia

data. Discuss the use of histograms.

Full Marks: 75 Pass Marks: 40%

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and the Bertrey the first and The figures in the margin indicate full marks for the questions

OF-OF

Differentiate between descriptive and (a) inferential statistics. Explain the various types of variables in research. 5+10=15

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Or

(b) Compute the 65th percentile (P65) and 40th percentile (P40) from the distribution given below:

Scores	Frequency
46–50	8
41–45	4
36–40	11
31–35	A., 6
26–30	9
21–25	12
	$\overline{N} = 50$

2. (a) Explain the different methods of graphically representing ungrouped data. Discuss the use of histograms.

10+5=15

Or

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(b) The following table shows the marks obtained by students in a psychological test:

Marks	Frequency		
10–20	5		
20–30	12		
30-40	18		
40–50	10		
50-60	5,		

10-15

Construct a histogram and a cumulative percentage curve of the given data.

15

3. (a) What is measures of variability?

Describe by the various kinds of variability measures.

3+12=15

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(b) Compute the mean, median and mode for the following table given below:

5+5+5=15

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	lise ar si		J. J. L. J. Wallet	= 30	coef

4. (a) Discuss the various applications of Normal Probability Curve (NPC).

Differentiate between skewness and kurtosis.

5+10=15

Or

(b) The mean IQ score of a population is 100 with a standard deviation of 15. Calculate the percentage of people expected to have IQ scores (i) below 85, (ii) between 85 and 115 and (iii) above 130 assuming a normal distribution.

(Turn Over)

5. (a) What is Pearson's correlation coefficient? Explain positive and negative correlation. What are of cautions concerning the 3+6+6=15 correlation coefficient? (b) (Company मिल्लास्य स्थापना सम्बद्धाः सम्बद्धाः सम्बद्धाः

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A psychologist wants to examine the relationship between study hours and exam performance. The following table provides the data for 5 students:

Study (X) hours	2	4	6	8	10
Exam scores (Y)	55	60	65	70	80

Pearson's correlation Calculate coefficient and interpret the result.

15



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