

2018

M.A.

1st Semester Examination

SOCIOLOGY

PAPER—SOC-104

Full Marks : 50

Time : 2 Hours

The figures in the right-hand margin indicate full marks.

Candidates are required to give their answers in their own words as far as practicable.

Illustrate the answers wherever necessary.

1. Answer any four questions : 4×2

- (a) What is statistics ?
- (b) Define hypothesis.
- (c) What do you mean by population ?
- (d) What do you mean by inferential statistics ?
- (e) What do you mean by class interval ?
- (f) What are the advantages of central tendency ?
- (g) When will you apply '2' test ?
- (h) Define dependent variable with example.

(Turn Over)

2. Answer any four questions :

4x4

- (a) Construct a bargraph and histogram from the given data and state the difference between the two :

For Bargraph—

Scores	Frequency
Highest	140
High	30
Neutral	200
Low	100
Lowest	130

For histogram—

Class Interval	Frequency
10-19 →	15
20-29 →	30
30-39 →	70
40-49 →	90
50-59 →	140
60-69 →	40
70-79 →	57
80-89 →	63
90-99 →	49

- (b) Define and classify 'ANOVA'.
- (c) What is snowball sampling ?
- (d) Write shortly on the different types of mode for raw scores without frequency.

- (e) Define SPSS.
- (f) Describe descriptive statistics with steps.
- (g) Calculate r for the following data :

x:	40	60	35	55	50	75	80
y:	30	40	32	40	35	55	58

- (h) Draw a scatter diagram from the following data :

x:	50	60	55	65	75
y:	25	40	35	30	40

3. Answer any *two* questions : 2×8

- (a) Find out the mean, median and mode from the following distribution :

Class Interval		Frequency
5-9	→	22
10-14	→	25
15-19	→	18
20-24	→	36
25-29	→	50
30-34	→	35

- (b) What do you mean by standard deviation ?

Find out the Mean Deviation from the given distribution :

Class Interval		Frequency
20-29	→	7
30-39	→	13

<i>Class Interval</i>		<i>Frequency</i>
40-49	→	19
50-59	→	14
60-69	→	11
70-79	→	8
80-89	→	4

- (c) (i) What do you mean by regression ? 4+4
- (ii) Following table reflects the opinion regarding dowry. Find out the significant difference between the opinions.

<i>Respondent</i>	<i>Yes</i>	<i>No</i>
Literate Mother	10	31
Illiterate Mother	40	10

- (d) Following table reflects the obtained marks of two students. Find out if there is any difference between the received marks.

A:	30	20	30	17	9	10	8
B:	25	14	26	11	11	7	6

[Internal Assessment : 10 Marks]