

2007

SOCIOLOGY

PAPER—IV

Full Marks : 100

Time : 4 hours

The figures in the right-hand margin indicate marks

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

**Write the answers to Questions of each Half
in separate books**

FIRST HALF

[Marks :50]

Answer Q.No.5 and any two from the rest

1. What is social research ? Discuss the importance of social research in the field of social science. 8 + 7
2. What is questionnaire ? Differentiate between questionnaire and schedule and identify the major types of questionnaire. 5 + 10

(Turn Over)

3. Define 'Social Impact Assessment' (SIA). What are the variables of SIA? 8 + 7
4. What is data processing? Explain steps in data processing. 5 + 10
5. Answer, in brief, any *four* of the following questions : 5 × 4
- (a) Positivist method of enquiry.
 - (b) Primary and secondary data.
 - (c) Importance of tabulation in social research.
 - (d) Methodological and theoretical triangulation.
 - (e) Case study.
 - (f) What is pilot survey?
 - (g) Likert scale.

SECOND HALF

[Marks :50]

Answer **Q.No.10** and any *two* from the rest

6. (a) Draw an Ogive from the following data :

| | | | | | |
|---------------|------|-------|-------|--------|---------|
| Wages(in Rs.) | 0-25 | 25-50 | 50-75 | 75-100 | 100-125 |
| Employees | 25 | 40 | 62 | 35 | 10 |

(b) The following are the ages of some students.

Form a grouped frequency distribution :

18, 17, 15, 15, 18, 17, 20, 18, 19, 17, 15, 22,
26, 20, 21, 19, 15, 28, 27, 17, 18, 20, 29, 30,
27, 26, 15, 21, 20, 19, 17, 24, 15, 21, 26, 27,
29, 30, 19, 15, 30, 27, 22, 21, 19, 17, 22, 18,
29, 23. 10 + 5

7. (a) Find out the frequency density for each class :

| <u>Age</u> | <u>Frequency</u> |
|------------|------------------|
| 5—10 | 21 |
| 11—16 | 15 |
| 17—23 | 17 |
| 24—29 | 13 |
| 30—35 | 10 |

(b) Draw a bar diagram from the following data :

| <u>Country</u> | <u>Yield per (lb) acre</u> |
|----------------|----------------------------|
| USA | 500 |
| Nepal | 575 |
| Bangladesh | 600 |
| Italy | 250 |
| Canada | 400. |

10 + 5

8. Draft a blank table to show the distribution of personnel in a manufacturing concern. 15

(a) Sex: male and female

(b) Three grades of salary: Rs.300-Rs.500,
Rs.500-Rs.700, Rs.700-Rs.900

(c) Two periods:1940 and 1950.

9. Calculate mean and median from the following :5 + 10

| <u>Weight (kg)</u> | <u>No. of Students</u> |
|--------------------|------------------------|
| 36—40 | 14 |
| 41—45 | 26 |
| 46—50 | 40 |
| 51—55 | 53 |
| 56—60 | 50 |
| 61—65 | 37 |
| 66—70 | 25 |

10. Answer any *four* from the following :

(a) What is Statistics ? Point out its importance. 2 + 3

(b) Distinguish between variable and attributes.
Classify each of the following characters as either an attribute or variable.

(i) Family size

(ii) Rain fall

(iii) Mother tongue.

2 + 3

- (c) Calculate standard deviation from the following data : 5

| <u>Height (Inch)</u> | <u>Frequency</u> |
|----------------------|------------------|
| 60—62 | 20 |
| 62—64 | 12 |
| 64—66 | 30 |
| 66—68 | 13 |
| 68—70 | 10 |

- (d) Find out the composite mean, when : 5

$$n_1 = 100 \quad n_2 = 50$$

$$\bar{x}_1 = 50 \quad \bar{x}_2 = 55$$

- (e) Calculate Quartile Deviation $\left(\frac{Q_3 - Q_1}{2} \right)$ from the following : 5

| <u>Class Boundary</u> | <u>Cumulative Frequency</u> |
|-----------------------|-----------------------------|
| 10 | 0 |
| 15 | 4 |
| 20 | 16 |
| 25 | 32 |
| 30 | 54 |
| 40 | 62 |
| 50 | 72 |
| 60 | 78 |
| 70 | 82 |

(f) Calculate mode from the following data : 5

| <u>Profits per Shop (Rs.)</u> | <u>No. of Shops</u> |
|-------------------------------|---------------------|
| 150—250 | 10 |
| 250—350 | 15 |
| 350—450 | 25 |
| 450—550 | 12 |
| 550—650 | 3 |

(g) Find out the co-efficient of correlation from the following : 5

| <u>X</u> | <u>Y</u> |
|----------|----------|
| 60 | 62 |
| 64 | 66 |
| 67 | 63 |
| 70 | 65 |
| 75 | 70 |
| 78 | 71 |