

(For candidates admitted from 2016 – 2017 onwards)

B.S.W. DEGREE EXAMINATION, APRIL 2021.

Part III — Allied

**FUNDAMENTALS OF STATISTICS**

Time : Three hours

Maximum : 75 marks

**SECTION A — (10 × 2 = 20)**

Answer ALL questions.

1.  
Define Statistics.
2.  
State the three types of data.
3.  
What are the main parts of ideal table?
4.  
Define Classification.
5.  
What is median?
6.  
State any two merits of mode.
7.  
What do you mean by quartile deviation?
8.  
What is Lorenz curve?
9.  
Define diagram.
10.  
What is graphs?

SECTION B — (5 × 5 = 25)

Answer ALL questions choosing either (a) or (b).

11.

a) Bring out the objectives of statistics.

Or

b) Write a note on bivariate frequency distribution.

12.

a) List the types of classification.

Or

b) Explain the general rules of tabulation.

13.

a) Bring out the merits and demerits of mean.

Or

b) Explain the disadvantages of median.

14.

a) Calculate coefficient of range.

Marks :	10–20	20–30	30–40	40–50
No. of Students :	8	10	12	15

Marks :	50–60	60–70	70–80
No. of Students :	20	14	7

Or

b) What are the merits and demerits of standard deviation?  
Explain.

15.

a) Bring out the types of one dimensional diagrams.

Or

b) Draw a frequency polygon for the following data :

Weight in kg.	30–35	35–40	40–45	45–50
No. of Students :	4	7	10	18

Weight in kg.	50–55	55–60	60–65
No. of Students :	14	8	3

SECTION C — (3 × 10 = 30)

Answer any THREE questions.

16.

Discuss the importance of statistics in social work research.

17.

Describe the types of tabulation.

18. Compute the arithmetic mean from the following data :

Age :	0-10	10-20	20-30	30-40
No. of Persons :	20	25	32	40

Age :	40-50	50-60	60-70	70-80
No. of Persons :	30	35	10	8

- 19.

Compute Quartile deviation for the data given below :

Wages (in Rs.) :	20-25	25-30	30-35	35-40
No. of Workers :	4	8	15	17
Wages (in Rs.) :	40-45	45-50	50-55	
No. of Workers :	12	9	5	

- 20.

Describe the various diagrammatic representation used in social work research.

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