



Ba/EDN C-11

2024

(FYUGP)

(5th Semester)

EDUCATION

(Major)

Paper Code : EDN C-11

(Statistics in Education)

Full Marks : 75

Pass Marks : 40%

Time : 3 hours

*The figures in the margin indicate full marks
for the questions*

1. (a) Discuss the meaning and nature of educational statistics. Enumerate the sources of educational data. 4+4+7=15

Or

- (b) How is statistics important in interpretation of educational data? 15

(2)

2. (a) Compute mean and median from the following grouped data. Outline the utility of median. 6+6+3=15

<i>Class Interval</i>	<i>Frequency</i>
23-25	4
26-28	8
29-31	22
32-34	10
35-37	8
38-40	5
41-43	6
44-46	4
47-49	3
50-52	3
53-55	3
<i>N = 76</i>	

Or

- (b) Calculate standard deviation from the following data :

15

<i>Class Interval</i>	<i>Frequency</i>
78-79	3
76-77	5
74-75	6
72-73	8
70-71	7
68-69	14
66-67	11
64-65	2
62-63	5
60-61	4
<i>N = 65</i>	

3. (a) Discuss the concept of normal probability. Outline the characteristics of normal probability curve in interpretation of test sources. 6+9=15

Or

- (b) State the concept of divergence from normality. Mention two popular types of divergence from normality. 3+6+6=15

4. (a) Discuss the different types of correlation. What are the uses of correlation in educational measurement? State the interpretation of correlation. 9+3+3=15

Or

- (b) Ten students scored on two tests X and Y as given below. Compute the value of co-efficient of correlation by rank difference method. 15

Test-X	31	35	36	37	40	40	41	41	41	43	47
Test-Y	73	71	37	81	74	80	77	77	84	86	82

5. (a) The following table reflects the distribution of marks obtained in two subjects, English and Mathematics in the school

(4)

examination. Draw a histogram and frequency polygon.

<i>Class Interval</i>	<i>Frequency</i>
40-44	1
45-49	1
50-54	4
55-59	10
60-64	5
65-69	3
70-74	3
75-79	2
80-84	1

Also, draw a pie diagram from the following scores :

<i>Class</i>	<i>No. of Students</i>
Class-V	45
Class-VI	30
Class-VII	25

$$6+6+3=15$$

Or

- (b) Discuss different types of variables in statistical data analysis. Outline the application of computer in statistical data.

15

★ ★ ★