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

(*Turn Over*)

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

Class Interval	Frequency
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
	$N = 76$

Or

(b) Calculate standard deviation from the following data : 15

Class Interval	Frequency
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
	$N = 65$

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

examination. Draw a histogram and frequency polygon.

Class Interval	Frequency
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 :

Class	No. of Students
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

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