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(5th Semester)

EDUCATION

(Honours)

Paper No. : EDN–502

(Statistics in Education)

Full Marks : 70
Pass Marks : 45%

Time : 3 hours

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

1. What do you mean by Educational Statistics? Explain the importance of Statistics in Education.   4+10=14

Or

Discuss the sources of educational data. Enumerate the use of Statistics in interpretation of educational data.   9+5=14

2. Calculate mean, median and mode from the following table : $\qquad$ 5+5+4=14

Score	Frequencies
75–79	2
70–74	6
65–69	8
60–64	13
55–59	9
50–54	6
45–49	3
40–44	1
35–39	2
30–34	2
	N = 52

Or

Compute standard deviation (SD) from the following grouped data : 14

Class interval	F
50–54	2
45–49	3
40–44	6
35–39	8
30–34	7
25–29	9
20–24	8
15–19	2
10–14	5
	N = 50

3. What is normal probability curve? Discuss the properties of a normal probability curve.

$$4+10=14$$

Or

What do you mean by the term 'divergence from normality'? Explain the term 'skewness' and 'kurtosis' along with their main types.

$$4+(5+5)=14$$

4. (a) What is coefficient of correlation?

   (b) Find the coefficient of correlation between the following two sets of scores using the product moment method :

$$4+10=14$$

Subjects	Test—X	Test—Y
A	40	52
B	45	61
C	42	53
D	39	50
E	46	60
F	36	59
G	49	63
H	35	59
I	50	62
J	41	54

Or

Calculate the coefficient of correlation by rank difference method between the marks secured in two subjects by 10 students :   14

Students	Science	Maths
A	33	45
B	45	50
C	42	61
D	51	64
E	39	47
F	57	55
G	60	57
H	29	42
I	48	56
J	62	48

5. (a) What do you understand by graphical representation of data?

   (b) In a class 8% students failed, 15% obtained third division, 40% obtained second division, 25% obtained first division and 12% obtained distinction. Draw a pie-diagram to show this result.

   $$4+10=14$$

Or

Define ogive and describe its uses in Statistics. State the application of computer in data processing. $(4+5)+5=14$

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