Ba/Edn-502

2 0 1 9

(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. (a) What is educational statistics? State the importance of statistics in education.

   4+10=14

   Or

   (b) Enumerate the sources of educational data and the use of educational statistics.

   9+5=14

20L/**112**

(Turn Over)

(**2**)

2. *(a)* Calculate mean, median and mode for the following frequency distribution :

5+5+4=14

Score	Frequency
55–59	4
50–54	2
45–49	2
40–44	9
35–39	12
30–34	6
25–29	7
20–24	1
15–19	2
10–14	9
	$N = 54$

Or

(b) Compute Standard Deviation (SD) from the following grouped data : 14

Class interval	Frequency
75–79	8
70–74	6
65–69	3
60–64	2
55–59	5
50–54	2
45–49	8
40–44	9
35–39	7
	$N = 50$

3. (a) What is normal probability curve? Explain the properties of normal probability curve.   14

Or

(b) What do you mean by the term 'divergence from normality'? Discuss the terms 'skewness' and 'kurtosis' along with their main types.   4+5+5=14

4. (a) Explain the kinds of correlation. Compute the coefficient of correlation by rank difference method between the marks secured in two subjects by 10 students :   4+10=14

Students	Education	History
A	85	46
B	77	53
C	49	76
D	80	36
E	30	60
F	62	42
G	41	57
H	53	72
I	90	48
J	32	87

(4)

Or

(b) What is coefficient of correlation? Find the coefficient of correlation between the following two sets of scores using the product moment method :   4+10=14

Subject	Test-X	Test-Y
A	76	40
B	62	53
C	51	88
D	66	35
E	48	74
F	57	60
G	82	56
H	59	72
I	84	41
J	44	69

5. (a) (i) What is graphical representation of data?

(ii) In a college, 9% students failed, 13% obtained third division, 47% obtained second division, 21% obtained first division and 10% obtained distinction. Draw a pie diagram to show this result.

4+10=14

20L/112

(*Continued*)

Or

(b) (i) Plot an ogive from the given data :

No. of students	Marks less than	Marks more than
4	10	50
8	15	46
15	19	35
25	26	26
37	35	18
45	39	8
50	45	2

(ii) State the stages of data processing.

8+6=14

★ ★ ★