

2019

(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+

Or

- (b) Enumerate the sources of educational data and the use of educational statistics. 9+

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(Turn Over)

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
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	$N = 54$

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
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	$N = 50$

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

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=9

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+6=10

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

Or

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

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, 37% obtained second division, 27% obtained first division and 14% obtained distinction. Draw a pie diagram to show this result.

Or

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

<i>No. of students</i>	<i>Marks less than</i>	<i>Marks more than</i>
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
