

2023

(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? Explain the significance of statistics in education. 4+10=14

Or

- (b)** Discuss the sources of educational data. Enumerate the use of statistics in interpretation of educational data.

10+4=14

2. (a) Calculate the mean, median and mode from the following grouped data :

$$5+5+4=14$$

<i>Class Interval</i>	<i>Frequency</i>
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
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	$N = 50$

Or

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

14

<i>Class Interval</i>	<i>Frequency</i>
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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	$N = 54$

3. (a) What is normal probability curve?
Discuss the properties of normal probability curve. $4+10=14$

Or

- (b) Explain the term 'divergence from normality'. Discuss the terms 'skewness' and 'kurtosis' along with their main types. $4+(5+5)=14$

4. (a) What is coefficient of correlation?
Calculate the correlation coefficient of the marks obtained by 10 students in statistics and economics using rank difference method : 14

<i>Students</i>	<i>Statistics</i>	<i>Economics</i>
A	36	50
B	56	35
C	60	70
D	65	50
E	42	58
F	33	75
G	44	60
H	50	45
I	60	89
J	62	38

Or

- (b) Mention the types of correlation. Compute the coefficient of correlation between the two sets of scores using product moment method : $4+10=14$

Subject	Scores-X	Scores-Y
A	24	34
B	26	20
C	32	22
D	38	32
E	33	24
F	35	36
G	42	27
H	30	25

5. (a) (i) What do you understand by graphical representation of data?
(ii) Discuss the application of computer in data processing. 14

Or

- (b) In a class, 5% student failed, 7% got compartment, 17% obtained third division, 42% obtained second division and 29% obtained first division. Draw a pie diagram to show this result. 14
