## Ba/Edn-502

## 2022

(5th Semester)

EDUCATION ( Honours )

Paper No.: EDN-502

( Statistics in Education )

Full Marks: 70
Pass Marks: 45%.

Time: 3 hours

The pures in the margin indicate full marks for the questions

1. (a) What is educational statistics? Discuss the importance of statistics in education. 4+10=14

Or

(b) Enumerate the sources of educational data and the use of statistics in interpretation of educational data. 9+5=14

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(Turn Over)

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

5+5+4=14

Scores	Frequency
40-44	2
35-39	3
30-34	4
25-29	5
20-24	10
15-19	15
10-14	6
5–9	5
	N = 50

Or

(b) Compute standard deviation (SD) from the following grouped data by short method:

14

ethod:	
Scores	Frequency
95–100	2
90–95	0
85-90	5
80–85	9
75–80	11
70–75	10
65–70	12
60–65	7
55-60	3
50-55	1
00 0=	N = 60

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(Continued)

normal of concept 3. (a) Explain the Discuss curve. probability properties of normal probability curve.

4+10=14

Or

- (b) What is divergence from normality? Explain skewness and Kurtosis and 3+11=14 illustrate with diagrams.
- 4. (a) Explain the concept of correlation. Calculate the coefficient of correlation by rank difference method between the marks secured in two tests by 10 students and interpret the results:

2+10+2=14

Students	Maths	Physics
A	92	61
В	87	55
С	64	43
D	55	48
E	76	57
F	81	45
G	50	36
Н	69	47
ī	81	51
J	77	48

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(Turn Over)

Or

(b) Find the coefficient of correlation between the following two sets of scores using the product-moment method and 12+2=14 interpret the result:

Subjects	Test-X	Test-Y
A	67	85
В	65	83
C	50	72
D	58	77
E	62	84
F	66	87
G	53	70
Н	59	79
I	62	82
J	58	81

5. (a) What is graphical representation of data? Distinguish between grouped and ungrouped data with suitable examples. 4+(5+5)=14

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(Continued)

(5)

Or

(b) Plot a histogram and a frequency polygon from the given data: 7+7=14

Class Interval	Frequency
80–84	1
75–79	3
70–74	4
65–69	4
60-64	7
55–59	8
50–54	10
45-49	7
40–44	5
35-39	2
30–34	3
25–29	1

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