

2017

( 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 )

2. Calculate mean, median and mode from the following table : 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
	<hr/>
	$N = 52$

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
	<hr/>
	$N = 50$

8L/102

( Continued )

( 3 )

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

<i>Subjects</i>	<i>Test—X</i>	<i>Test—Y</i>
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

8L/102

( Turn Over )

( 4 )

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.

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

\*\*\*

8L—1400/102

Ba/Edn-502