

2015

(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?
State the importance of statistics in
education. 4+10=14

Or

Discuss the sources of educational data.
Briefly explain the use of statistics in
interpretation of educational data. 10+4=14

(2)

2. Compute mean, median and mode for the following frequency distribution : $5+5+4=14$

Scores	Frequencies
27-30	1
24-27	3
21-24	6
18-21	11
15-18	30
12-15	26
9-12	12
6-9	8
3-6	3
0-3	2
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	$N = 102$

Or

- (a) What are the different measures of variability? State them.
- (b) Calculate standard deviation (SD) from the following grouped data : $4+10=14$

Class-Interval	f
60-64	2
55-59	3
50-54	2
45-49	6
40-44	8
35-39	8
30-34	7
25-29	5
20-24	9
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	$N = 50$

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(Continued)

3. What is a normal curve? Discuss the uses of normal probability curve in interpretation of test scores. 2+12=14

Or

Define the terms skewness and kurtosis. Describe the characteristic properties of a normal probability curve. 4+10=14

4. (a) What do you mean by linear correlation?
- (b) Calculate the coefficient of correlation by rank difference method between the marks secured in two subjects by 10 students : 4+10=14

Students	English	Maths
A	39	68
B	45	80
C	62	51
D	75	43
E	70	43
F	80	35
G	67	42
H	62	46
I	49	71
J	32	83

Or

Compute the product moment (r) of correlation coefficient from the two sets of scores :

14

Subjects	Test—X	Test—Y
A	41	63
B	46	61
C	40	56
D	49	52
E	39	50
F	37	60
G	42	62
H	43	58
I	45	59
J	36	52

5. What is a variable? Distinguish between continuous and discrete variables with suitable examples.

4+(5+5)=14

Or

- (a) What do you understand by graphical representation of data?
- (b) In a class 5% students 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. 4+10=14
