2024

(CBCS)

(4th Semester)

EDUCATION

(Honours)

Paper Code : EDN C–9

(Statistics in Education)

Full Marks : 75
Pass Marks : 40%

Time : 3 hours

The figures in the margin indicate full marks for the questions

1. *(a)* What is educational statistics? Discuss the nature and scope of educational statistics. 5+10=15

Or

(b) Briefly explain the sources of educational data and the significance of statistics in educational research. 10+5=15

2. *(a)* What are the different measures of central tendency? Compute mean, median and mode for the following frequency distribution : 3+4+4+4=15

Scores	*Frequency*
65–69	1
60–64	3
55–59	4
50–54	7
45–49	9
40–44	11
35–39	8
30–34	4
25–29	2
20–24	1
	$N = 50$

Or

(b) State the meaning of standard deviation. Calculate standard deviation (SD) from the following group data : 3+12=15

Class Interval	*Frequency*
55–59	3
50–54	2
45–49	3
40–44	3
35–39	6

Class Interval	*Frequency*
30–34	7
25–29	9
20–24	7
15–19	2
10–14	8
	$N = 50$

3. *(a)* Explain the concept of normal probability curve. Discuss the properties of normal probability curve in interpretation of test scores. 5+10=15

Or

(b) What do you mean by the term of divergence from normality? Explain the term skewness and kurtosis along with their diagrams. 5+5+5=15

4. *(a)* Explain the concept of correlation. Calculate the coefficient of correlation by rank difference method between two tests secured by 10 students. 4+11=15

Students	*Education*	*History*
A	45	65
B	37	32
C	62	53
D	53	51
E	60	48

Students	*Education*	*History*
F	48	23
G	29	39
H	51	63
I	33	36
J	49	46

Or

(b) Find the coefficient of correlation between the following two sets of scores using the product moment method : 15

Subjects	*Test X*	*Test Y*
A	41	63
B	50	53
C	42	61
D	31	35
E	29	42
F	51	52
G	60	67
H	54	40
I	33	62
J	46	54

5. *(a)* What is data? Discuss the different applications of computer in data processing. 5+10=15

Or

(b) What do you understand by graphical presentation of data? Plot an ogive from the given data. 4+11=15

Scores	*Frequency*
37–39	2
34–36	4
31–33	6
28–30	10
25–27	12
22–24	7
19–21	7
16–18	3
13–15	2
10–12	1

★★★