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orti (FYUGP)

(5th Semester)

**EDUCATION** 

( Major )

Paper Code: EDN C-11

(Statistics in Education)

Full Marks: 75
Pass Marks: 40%

Time: 3 hours

(b) Calculate standard deviation from the

The figures in the margin indicate full marks for the questions

1. (a) Discuss the meaning and nature of educational statistics. Enumerate the sources of educational data. 4+4+7=15

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Or

(b) How is statistics important in interpretation of educational data? 15

2. (a) Compute mean and median from the following grouped data. Outline the utility of median.

6+6+3=15

Class Interval	Frequency
23–25	4
	8
26–28	22
29–31	10
32–34	
35–37	8
38-40	5
41–43	6
44-46	4
47-49	3
50–52	3
53–55	3
	N = 76

Or

(b) Calculate standard deviation from the following data:

Class Interval	Frequency
78–79	3
76–77	5
74–75	6
72–73	8
70-71	7 ( ) 7 ( ) ( )
68-69	14
66–67	11
64–65	. 2
62–63	5
60–61	4
	<i>N</i> = 65

3. (a) Discuss the concept of normal probability. Outline the characteristics of normal probability curve in interpretation of test sources. 6+9=15

## Or

- (b) State the concept of divergence from normality. Mention two popular types of divergence from normality. 3+6+6=15
- 4. (a) Discuss the different types of correlation. What are the uses of correlation in educational measurement? State the interpretation of correlation.

  9+3+3=15

## Or

(b) Ten students scored on two tests X and Y as given below. Compute the value of co-efficient of correlation by rank difference method.

Γ	Test-X	31	35	36	37	40	40	41	41	41	43	47
-	Test-Y	73	71	37	81	74	80	77	77	84	86	82

5. (a) The following table reflects the distribution of marks obtained in two subjects, English and Mathematics in the school

(Turn Over)

15

frequency polygon.

til dyri	Class Interval	Frequency	
S1=0+9	40-44	nontrie Tranti	
	45-49	1	
	50–54	4	
· mort es.	154 10 55-59 10 10 10 10 10 10 10 10 10 10 10 10 10	op smiloma	(0)
types of	slugo60-64 golde	■ 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	
3+6+6=15	65-69	diver case in	
	70–74	3	
pea of	75–79	di azoeiG	D) .4
lo , eser	Sold 80-84 ladV	moildones	

Also, draw a pie diagram from the following scores:

0+3+3=15	of correlation.				
AL STATE	Class	No. of Students			
Sollies Sollies	Class-V	45			
bus X sizo	Class-VI	Ten students a			
	Class-VII	11Ad 0 25			

ansa ya masamoo lo maisma-oo 6+6+3=15

(b) Discuss different types of variables in statistical data analysis. Outline the application of computer in statistical data.

subjects, Engist\* and Mathematics in the school

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