

19 NOV 2015

Subject Code : **V/EDN (vi)**

Booklet No. **A** 233

19 NOV 2015

(5)

V/EDN (vi)

2015

(5th Semester)

EDUCATION

SIXTH PAPER

(Statistics in Education)

Full Marks : 75

Time : 3 hours

(PART : B—DESCRIPTIVE)

(Marks : 50)

The figures in the margin indicate full marks for the questions

1. (a) Explain the two types of statistics. 2+2=4
- (b) Tabulate the following 35 scores into a frequency distribution using 64-66 as the lowest class interval : 6

72 75 77 67 72 81 68 65 86
 73 67 82 76 76 70 83 71 63
 72 72 61 67 84 69 64 65 66
 70 71 67 68 75 76 82 86

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(2)

Or

- (a) Define statistics. Write any two limitations of statistics. 2+2=4
- (b) Draw a pie-diagram to represent the following data detailing the monthly expenses of an institution : 6

Salary of the staff—60%
 Office stationary—25%
 Electric, water, telephone bills—30%
 Miscellaneous—20%

2. (a) Explain the concept of median. What are the uses of median? 2+2=4
- (b) Calculate the mean for the following distribution of scores : 6

Scores	f
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
	<u>N = 50</u>

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(3)

Or

- (a) Define the concept and uses of mode. 2+2=4
- (b) Calculate the median of the distribution of scores given below : 6

Scores	f
120-122	2
117-119	2
114-116	2
111-113	4
108-110	5
105-107	9
102-104	6
99-101	3
96-98	4
93-95	2
90-92	1
	<u>N = 40</u>

3. (a) What are the measures of variability? Explain any one of them. 2+2=4

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(4)

- (b) Compute the average deviation of the scores given below : 6

Scores	f
110-114	4
105-109	4
100-104	3
95-99	0
90-94	3
85-89	3
80-84	1
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	$N = 18$

Or

- (a) What is quartile deviation? What are the uses of quartile deviations? 2+2=4
- (b) Compute the standard deviation of the data given in Question No. 3 (b). 6
4. (a) Mention the application of normal distribution curve in the field of education. 4
- (b) Explain the concept of skewness and kurtosis with suitable diagram. 6

Or

What is normal distribution? Discuss the characteristics of normal distribution curve. 4+6=10

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(Continued)

(5)

5. (a) What are the uses of correlation? 3
- (b) Compute the coefficient of correlation between English and Mizo test scores as given by rank difference method and interpret your result : 5+2=7

Students :	A	B	C	D	E	F
English :	80	45	55	56	58	60
Mizo :	82	86	50	48	60	62
Students :	G	H	I	J	K	
English :	65	68	70	75	85	
Mizo :	64	65	70	74	90	

Or

- (a) What is zero correlation? 3
- (b) Compute the coefficient of correlation from the above scores given in Question No. 5 (b) by using product moment method and interpret your result. 7

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V/EDN (vi)

2015

(5th Semester)

EDUCATION

SIXTH PAPER

(Statistics in Education)

(PART : A—OBJECTIVE)

(Marks : 25)

The figures in the margin indicate full marks for the questions

SECTION—A

(Marks : 10)

Choose the most appropriate answer to the following by putting a Tick (✓) mark against it in the brackets provided :

1×10=10

1. Statistics classifies and tabulates data to present them briefly for

- (a) prediction ()
- (b) analysis ()
- (c) collection ()
- (d) samples ()

2. A graphic representation is the geometrical image of a set of data. It is also a

- (a) mathematical image ()
- (b) geometrical image ()
- (c) graphical image ()
- (d) statistical picture ()

3. When the measures of central tendency having the greatest stability is wanted, we use

- (a) median ()
- (b) mean ()
- (c) mode ()
- (d) percentile ()

4. Median is a point on a scale such that half the scores fall above it and ___ below it.

- (a) 75% ()
- (b) 50% ()
- (c) 90% ()
- (d) 70% ()

5. When the data are too scattered to justify the computation of a more precise measure of variability, can be used as

- (a) quartile deviation ()
- (b) range ()
- (c) standard deviation ()
- (d) average deviation ()

6. The most stable and reliable measure of variability is

- (a) range ()
- (b) average deviation ()
- (c) standard deviation ()
- (d) quartile deviation ()

7. The distribution of flatter peak than of normal distribution is known as

- (a) negative skewness ()
- (b) positive skewness ()
- (c) mesokurtic distribution ()
- (d) platykurtic distribution ()

8. The height of a normal curve is

- (a) 3989
- (b) 3898
- (c) 263
- (d) 3689

9. Product moment method is also known as

- (a) Karl Pearson
- (b) Charles Spearman
- (c) Skinner
- (d) Guilford

10. "Correlation indicates a joint relationship between two variables." The statement was given by

- (a) Guilford
- (b) Skinner
- (c) Lathrop
- (d) Spearman

SECTION—B

(Marks : 15)

Write on the following :

1. Advantages of statistics

3×5=15

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3. Concept of quartile deviation

2. Uses of median

Write on the following:
Advantages of statistical statistics

Advantages of statistical statistics

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Product moment method is also known as

(a) Karl Pearson

(b) Charles Spearman

(c) Blomvist

(d) Guilford

10. Correlation indicates a joint relationship between two variables. The statement is given by

(a) Guilford

(b) Blomvist

(c) Lehigh

(d) Guilford

4. Concept of normal distribution

5. Types of correlation

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