

**63/1 (SEM-3) CC6/EDNHC3066**

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( Held in 2023 )

**EDUCATION**

Paper : EDNHC3066

**( Educational Measurement and  
Educational Statistics )**

Full Marks : 80

Pass Marks : 32

Time : 3 hours

*The figures in the margin indicate full marks  
for the questions*

**1. Choose the correct option from the following :**

**1×6=6**

(a) "Measurement is the description of data in terms of number." Who said this?

(i) Bradfield

(ii) Stevens

(iii) Guildford

(iv) Campbell

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( Turn Over )

(b) In which scale of measurement absolute zero exists?

(i) Nominal scale

(ii) Ordinal scale

(iii) Interval scale

(iv) Ratio scale

(c) Value judgement is related with

(i) measurement

(ii) evaluation

(iii) standardized test

(iv) item analysis

(d) "Statistics is the science of estimates and probabilities." Who said this?

(i) Seligman

(ii) Croxton and Cowden

(iii) Boddington

(iv) Hagen

(e) Who introduced the concept of standard deviation in 1893?

(i) Karl Pearson

(ii) Charles Edward Spearman

(iii) Moivre

(iv) J. P. Guildford

(f) "An average is a central value of a group of observation or individuals." Who said this?

(i) J. P. Guildford

(ii) Clark

(iii) Thorndike

(iv) Bradfield

2. Answer the following in very short :  $2 \times 5 = 10$

(a) Write two differences between physical measurement and psychological measurement.

(b) What is a psychological test?

(c) Mention any two types of intelligence test.

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- (d) Find out mean from the following scores :

7, 10, 8, 12, 9, 11, 7

- (e) Mention two uses of range.

3. Answer any six of the following questions :

$5 \times 6 = 30$

- (a) Enumerate the functions of measurement.
- (b) Write a note on cumulative record card.
- (c) Explain the types of aptitude test.
- (d) Write a note on projective method.
- (e) Discuss on attitude scale and interest inventory.
- (f) What do you mean by a polygon? Describe the drawing procedure of a polygon graph.
- (g) What is correlation? What are its types? Explain briefly.

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( Continued )

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- (h) Draw a cumulative frequency percentage curve from the following distribution :

Class-interval	Frequency
55-59	5
50-54	9
45-49	17
40-44	10
35-39	14
30-34	18
25-29	10
20-24	7
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	$N = 90$

- (i) Find out standard deviation from the following ungrouped scores :

14, 22, 9, 15, 20, 17, 12, 11

4. Answer any two of the following questions :

$10 \times 2 = 20$

- (a) What is reliability? Describe any one method of computing reliability of tests. Mention the merits and demerits of the method.

$2+4+4=10$

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( Continued )

(b) Define evaluation. How is measurement and evaluation related to one another? Explain. 2+8=10

(c) Explain the concept of skewed distribution and kurtosis.

5. Answer any one of the following questions : 14

(a) Discuss the general principles of test construction and standardization.

(b) What is quartile deviation? Write two advantages of measures of variability. Find out quartile deviation from the following table : 3+2+9=14

<i>Class-interval</i>	<i>Frequency</i>
90-99	4
80-89	7
70-79	9
60-69	12
50-59	4
40-49	10
30-39	9
20-29	5
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	$N = 60$

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