

**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**

( 2 )

- (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

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( Continued )

( 3 )

- (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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( Turn Over )

( 4 )

- (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 :

5×6=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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( 5 )

- (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 :

10×2=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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