

(6)

(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

Class-interval	Frequency
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	

63/1 (SEM-3) CC6/EDNHC3066

2022

(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

(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)

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

- (i) Karl Pearson
- (ii) Charles Edward Spearman
- (iii) Moivre
- (iv) J. P. Guilford

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

- (i) J. P. Guilford
- (ii) Clark
- (iii) Thorndike
- (iv) Bradfield

2. Answer the following in very short : 2×5=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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(Continued)

(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
<hr/>	
$N = 90$	

(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)