

Total number of printed pages-8

63/1 (SEM-3) CC6/EDNHC3066

2024

EDUCATION

Paper : EDNHC3066

**(Educational Measurement and
Educational Statistics)**

Full Marks : 80

Pass Marks : 32

Time : Three hours

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

1. Choose the correct option from the following :
(any six) 1×6=6

(a) Variables which are always measured
in whole numbers –

(i) Discrete variables

(ii) Continuous variables

(iii) Qualitative variables

(iv) Both Continuous and Qualitative
variables

(b) "Measurement is the process of assigning symbols to the dimension of phenomenon in order to characterise the status of phenomenon as precisely as possible." Who among the following said the above statement ?

- (i) Guildford
- (ii) J. M. Bradfield
- (iii) Vernon
- (iv) Stevens

(c) The measurement in which the scale starts from zero is known as -

- (i) Normative measurement
- (ii) Ipsative measurement
- (iii) Ordinal measurement
- (iv) Absolute measurement

(d) The errors arising due to prejudice or liking of the measurer is called -

- (i) Systematic errors
- (ii) Accidental errors
- (iii) Interpretative errors
- (iv) Statistical errors

(e) Test-Retest method of reliability of a test is also known as -

- (i) Coefficient of equivalence
- (ii) Semi-coefficient of reliability
- (iii) Internal consistency of reliability
- (iv) Coefficient of stability

(f) Who among the following invented I.Q. Scale ?

- (i) Wount
- (ii) Alfred Binet
- (iii) William Stern
- (iv) L. M. Terman

(g) Average aptitude 'Stone Score' comprises between -

- (i) 0.67 to 1.89
- (ii) -0.67 to 0.66
- (iii) -1.68 to -0.66
- (iv) More than 1.90

(h) According to _____, "An attitude is the degree of positive or negative effect associated with some psychological object".

(i) Thurston

(ii) Freeman

(iii) Bradfield

(iv) Anastasi

(i) The mode (Mo) of following ungroup data would be -

9, 10, 9, 10, 3, 3, 4, 4, 8, 9, 8, 8, 9, 4

(i) 10

(ii) 9

(iii) 8

(iv) 4

(j) The value of mesokurtic curve is -

(i) More than .263 only

(ii) Less than .263 only

(iii) .263 only

(iv) .283 only

2. Briefly answer the following questions : (**any five**) $2 \times 5 = 10$

- (a) Trace the concept of formative evaluation.
- (b) Mention *two* characteristics of mental measurement.
- (c) Write *two* characteristics of objectivity of a test.
- (d) What do you mean by projective technique of personality test ?
- (e) Mention the *two* utilities of mean score.
- (f) What is positive correlation ?
- (g) Write *two* applications of computer in data processing.

3. Answer **any six** of the following questions : $5 \times 6 = 30$

- (a) Discuss the needs of educational measurement.
- (b) Discuss the purposes of Item analysis.
- (c) Mention *five* characteristics of standardised test.
- (d) Write the merits and limitations of an objective-type test.

- (e) Write the properties of normal probability curve.
- (f) Mention *five* utilities of graphical representation of data.
- (g) Write *five* characteristics of aptitude.
- (h) Distinguish between Individual and Group intelligence test.
- (i) Describe different types of Norms.
- (j) Compute mean using short method for the following data :

Class Interval (CI)	Frequency (f)
90 - 94	1
85 - 89	2
80 - 84	4
75 - 79	8
70 - 74	12
65 - 69	10
60 - 64	7
55 - 59	5
50 - 54	1
	$N = 50$

4. Answer **any two** questions of the following :
10×2=20

(a) What is educational evaluation ?
Mention the relationships between
evaluation and measurement. Discuss
the steps to be followed in an
achievement test. 2+4+4=10

(b) What do you understand by validity of
a test ? Discuss various types of test
validity. 2+8=10

(c) What is personality ? How does it
measure ? Mention the different
methods of projective technique of
personality measurement. 2+2+6=10

(d) What is correlation ? What are its
types ? Describe the product moment
method of coefficient of correlation.
2+3+5=10

5. Answer **any one** of the following questions :
14

(a) What is a test ? Discuss the general
principles of a test construction and
standardization. 2+6+6=14

(b) Elaborate the concept of mental age. Discuss various types of intelligence tests. $4+10=14$

(c) What do you mean by measures of variability ? What are its different methods ? Calculate the standard deviation (SD) from following data :

$$2+2+10=14$$

Class Interval (CI)	Frequency (f)
75 - 79	2
70 - 74	5
65 - 69	8
60 - 64	9
55 - 59	12
50 - 54	4
45 - 49	5
40 - 44	3
35 - 39	2

$$N = 50$$