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3 SEM TDC EDN M 2

2021

(Held in January/February, 2022)

EDUCATION

(Major)

Course : 302

(Educational Measurement and Evaluation)

Full Marks : 80

Pass Marks : 24

Time : 3 hours

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

1. (a) Write True or False of the following :

1×5=5

- (i) Evaluation is a comprehensive process.
- (ii) Psychological measurement has no zero point.
- (iii) A reliable test is always valid.
- (iv) Observation is both qualitative and quantitative.
- (v) The aptitude test can be broadly classified into general aptitude test and differential aptitude test.

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(2)

(b) Answer the following questions : $1 \times 3 = 3$

(i) Write one scope of qualitative statistics.

(ii) Mention one merit of median.

(iii) Mention one use of graphical representation of data.

2. Write short notes on the following : $4 \times 5 = 20$

(a) Relation between measurement and evaluation

(b) Content validity

(c) Observation method

(d) Nature of educational statistics

(e) Four properties of normal probability curve

3. What do you mean by the term 'measurement'? What are the functions of measurement? Describe with suitable examples. $2+8=10$

Or

Mention two major objectives of evaluation. Write the importance of evaluation in education. 10

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(Continued)

(3)

4. What is a standardised test? Discuss the steps involved in construction of a standardised achievement test. $2+8=10$

Or

What is meant by reliability of a test? Discuss about the test-retest and split-half technique of estimating reliability of a test. 10

5. What is aptitude test? Mention the advantages of differential aptitude test. Briefly discuss any one specific aptitude test. $2+4+4=10$

Or

What is meant by measurement of intelligence test? Write three principles of construction of intelligence test. Explain Binet-Simon scale 1908. 10

6. Compute quartile deviation from the following distribution : 5

| Class Interval | Frequency |
|----------------|-------------------|
| 90-94 | 2 |
| 85-89 | 2 |
| 80-84 | 4 |
| 75-79 | 8 |
| 70-74 | 8 |
| 65-69 | 13 |
| 60-64 | 9 |
| 55-59 | 6 |
| 50-54 | 5 |
| 45-49 | 1 |
| 40-44 | 2 |
| | $\overline{N=60}$ |

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(4)

7. Mention three merits and three demerits of mean as a measure of central tendency. 3+3=6

8. Draw a histogram or frequency polygon from the following frequency distribution table : 6

| Class Interval | Frequency |
|----------------|-----------|
| 20-24 | 2 |
| 25-29 | 3 |
| 30-34 | 8 |
| 35-39 | 10 |
| 40-44 | 16 |
| 45-49 | 9 |
| 50-54 | 6 |
| 55-59 | 4 |
| 60-64 | 3 |
| 65-69 | 2 |
| | $N = 63$ |

9. Compute the co-efficient of correlation by rank difference method from the following two sets of scores : 5

x : 5 3 2 8 6
y : 12 15 11 10 18

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