# 2023

( November )

## EDUCATION

( Honours )

**( Educational Evaluation and Statistics )**

*Marks* : 75

*Time* : 3 hours

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

Answer *any* **five** questions

1. Explain the concept of measurement and evaluation. Describe Bloom's taxonomy of educational objectives under cognitive domain. 8+7=15

2. Give the classification of different types of tests. Distinguish between standardised test and teacher-made test. 7+8=15

3. What is meant by reliability of a test? Discuss the method of determining reliability of a test by test-retest method. 5+10=15

( *Turn Over* )

**4.** Draw a histogram and a polygon of the following distribution : $7\frac{1}{2}+7\frac{1}{2}=15$

| Scores | Frequency |
|--------|-----------|
| 80–89 | 2 |
| 70–79 | 6 |
| 60–69 | 10 |
| 50–59 | 15 |
| 40–49 | 24 |
| 30–39 | 12 |
| 20–29 | 8 |
| 10–19 | 3 |
| | N = 80 |

**5.** Calculate the mean, median and mode from the following frequency table : $5+5+5=15$

| Class Interval | Frequency |
|----------------|-----------|
| 90–99 | 4 |
| 80–89 | 6 |
| 70–79 | 8 |
| 60–69 | 12 |
| 50–59 | 10 |
| 40–49 | 8 |
| 30–39 | 7 |
| 20–29 | 5 |
| | N = 60 |

**6.** (a) What is meant by correlation?

(b) Find out the coefficient of correlation between $X$ and $Y$ variables by using Spearman's rank difference method. Interpret the result : $3+10+2=15$

| Students | X | Y |
|----------|-----|-----|
| A | 40 | 35 |
| B | 50 | 47 |
| C | 35 | 27 |
| D | 32 | 30 |
| E | 48 | 50 |
| F | 55 | 52 |
| G | 60 | 62 |
| H | 15 | 13 |
| I | 10 | 12 |

**7.** Give the significance of standard deviation. Calculate the standard deviation from the following frequency distribution : $5+10=15$

| Class Interval | Frequency |
|----------------|-----------|
| 45–49 | 1 |
| 40–44 | 3 |
| 35–39 | 4 |
| 30–34 | 7 |
| 25–29 | 5 |
| 20–24 | 3 |
| 15–19 | 2 |
| | N = 25 |

8. Write short notes on any *two* of the following :

7½×2=15

   *(a)* Cattell's sixteen personality factors (16PF)

   *(b)* Characteristics of a good test

   *(c)* Likert's Attitude Scale

   *(d)* Concept and characteristics of normal probability curve

   *(e)* Method of determining content validity

★ ★ ★