PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

PG DEGREE EXAMINATION DECEMBER 2023
(Third Semester)

TRANS DISCIPLINARY COURSE
(Common to PG Programmes)

TOOL DEVELOPMENT

Time: Three Hours   Maximum: 50 Marks

SECTION-A (5 Marks)
Answer **ALL** questions
ALL questions carry **EQUAL** marks   (5 x 1 = 5)

1   The systematic use of tests to quantify psychophysical behaviour, abilities, and problems and to make predictions about psychological performance is known as
(i)   Psychophysiology   (ii) Psychological analysis
(iii) Psychobiological testing   (iv) Psychological assessment

2   Of the following sampling methods, which is a probability method?
(i)   Judgment   (ii) Quota
(iii) Simple random   (iv) Convenience

3   This is a technical term do we use to refer to whether a test measures what it purports to measure?
(i)   Reliability   (ii) Norms
(iii) Validity   (iv) Items

4   The full form of the acronym SEM is
(i)   Structural Equation Method   (ii) Structural Equivalent Modelling
(iii) Structural Equal Modelling   (iv) Structural Equation Modeling

5   We interpret a subject's performance on a test in terms of how other people have performed on the test. Other people's performance forms the _____ of the test.
(i)   Reliability   (ii) Norms
(iii) Validity   (iv) Items

SECTION - B (15 Marks)
Answer **ALL** Questions
ALL Questions Carry **EQUAL** Marks   (5 x 3 = 15)

6   a   Determine the importance of psychological assessment.
            OR
     b   Elaborate the steps in the measurement process.

7   a   Discuss the concept of content analysis.
            OR
     b   Compare the different methods of sampling.

8   a   Discuss the principles to be followed in Item generation.
            OR
     b   Justify progression of item difficulty in test construction.

9   a   Sketch the importance of factor analysis in tool development.
            OR
     b   Determine the reasons to use exploratory factor analysis.

10   a   Illustrate the steps in norm development.
            OR
     b   Evaluate the types of bias in psychometric analysis.

SECTION -C (30 Marks)
Answer **ALL** questions
ALL questions carry **EQUAL** Marks   (5 x 6 = 30)

11 a   Analyze the properties of scales of measurement.
                 OR
   b   Compare and contrast assessment, testing and measurement.

12 a   Evaluate the different methods of data collection.
                 OR
   b   Assess the important methods to select and manipulate variables.

13 a   Examine the different types of reliability.
                 OR
   b   Evaluate the different forms of validity that are commonly applied.

14 a   State the principles involved in confirmatory factor analysis.
                 OR
   b   Elucidate the concepts of Structural Equation Modeling.

15 a   Discuss the application of norms in testing and assessment.
                 OR
   b   Appraise the best practices in reporting factor analysis.

Z-Z-Z   END