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**BRAINWARE UNIVERSITY**

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Term End Examination 2025-2026**Programme – M.Sc.(APSY)-2025****Course Name – Psychometry and Statistics in Applied Psychology****Course Code - MPY20405****(Semester II)****Full Marks : 60****Time : 2:30 Hours**

[The figure in the margin indicates full marks. Candidates are required to give their answers in their own words as far as practicable.]

Group-A

(Multiple Choice Type Question)

1 x 15=15

1. *Choose the correct alternative from the following :*

- (i) Choose what psychological attributes cannot be directly observed.
 - a) Height and weight.
 - b) Intelligence and anxiety.
 - c) Distance and time.
 - d) Temperature and length.
- (ii) Select the product of measurement.
 - a) Theory.
 - b) Hypothesis.
 - c) Data.
 - d) Interpretation.
- (iii) Choose the first step in test development.
 - a) Statistical analysis.
 - b) Defining the purpose of the test.
 - c) Interpretation.
 - d) Standardization.
- (iv) Select the method that evaluates score stability over time.
 - a) Internal consistency
 - b) Test retest reliability
 - c) Inter scorer reliability
 - d) Parallel forms reliability
- (v) Choose the meaning of true score variance.
 - a) Error component of scores
 - b) Random score fluctuation
 - c) Variance due to actual trait
 - d) Variance due to guessing
- (vi) Select the validity that relates test scores to future performance.
 - a) Concurrent validity
 - b) Face validity
 - c) Predictive validity
 - d) Construct validity
- (vii) Choose the evidence type showing correlation with similar tests.
 - a) Discriminant evidence
 - b) Concurrent evidence
 - c) Convergent evidence
 - d) Face evidence
- (viii) Choose the meaning of item discrimination.
 - a) Item easiness
 - b) Separation of high and low scorers
 - c) Item popularity
 - d) Content coverage
- (ix) Select what inventories mainly assess.

- a) Academic achievement
c) Motor skills
- b) Personality traits and symptoms
d) Intelligence scores
- (x) Select how psychological test scores are interpreted.
- a) Raw score inspection
c) Compared with norms
- b) Interview judgment
d) Descriptive summary
- (xi) Select the meaning of the Barnum effect.
- a) Statistical calculation error
c) Acceptance of vague descriptions
- b) Cultural bias
d) Rating severity
- (xii) Select the technical level of rating scale data.
- a) Ratio level
c) Ordinal level
- b) Interval level
d) Nominal only
- (xiii) Select the meaning of acquiescence error.
- a) Disagreeing tendency
c) Cultural response
- b) Agreeing regardless of content
d) Random answering
- (xiv) Choose the measure of central tendency most suitable for skewed data.
- a) Mean
c) Median
- b) Mode
d) Standard deviation
- (xv) Choose what multiple regression controls statistically.
- a) Random error
c) Effects of other predictors
- b) Sample size
d) Measurement level

Group-B

(Short Answer Type Questions)

3 x 5=15

2. Explain the nature and use of inventories in psychological assessment. (3)
3. Explain the measures of central tendency in data analysis with examples. (3)
4. Explain the important measures of dispersion in psychological data. (3)
5. Explain the concept and limitations of correlation in psychological research. (3)
6. Write a detailed explanation of multiple regression and its importance in psychology. (3)

OR

Write an explanation distinguishing parametric and non parametric tests in data analysis. (3)

Group-C

(Long Answer Type Questions)

5 x 6=30

7. Explain the concept of reliability and its importance in psychological testing. (5)
8. Explain the purpose and significance of psychological tests in applied psychology. (5)
9. Classify observation techniques used in psychological assessment. (5)
10. Evaluate the usefulness of measures of central tendency for interpreting psychological test scores. (5)
11. Write a detailed explanation of the logic and procedure of analysis of variance. (5)
12. Compare classical and modern psychophysical scaling methods in terms of focus and applicability. (5)

OR

Explain the components of Scientific knowledge, namely theories and laws, and the relationship between them. (5)

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