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**BRAINWARE UNIVERSITY**

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Term End Examination 2025-2026**Programme – B.Physiotherapy-2022****Course Name – Evidence Based Physiotherapy & Case Studies****Course Code - BPTE704A****(Semester VII)****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 the database known for physiotherapy research.
 - a) CINAHL
 - b) PEDro
 - c) EMBASE
 - d) Scopus
 - (ii) Determine the contribution of PICO in EBPT.
 - a) Enhances treatment efficacy
 - b) Helps formulate focused questions
 - c) Offers treatment choices
 - d) Shortens hospital stay
 - (iii) Identify the primary goal of a diagnostic test in physiotherapy.
 - a) Prevent recurrence
 - b) Confirm or rule out a condition
 - c) Manage insurance
 - d) Delay treatment
 - (iv) Recognize the term for a test's ability to identify those without a disease.
 - a) Accuracy
 - b) Reproducibility
 - c) Specificity
 - d) Generalizability
 - (v) Apply QUADAS to assess a study on low back pain imaging.
 - a) Check author affiliation
 - b) Review study funding
 - c) Appraise study bias and applicability
 - d) Score patient outcome
 - (vi) Choose the statistical method often used in prognostic studies
 - a) Z-score analysis
 - b) T-test
 - c) Cox regression
 - d) Odds ratio only
 - (vii) Identify a tool commonly used to summarize study quality
 - a) SPSS
 - b) PRISMA
 - c) STROBE
 - d) PEDro Scale
 - (viii) A key characteristic of a good outcome measure is sensitivity to change
 - a) Random response
 - b) Change insensitivity
 - c) Sensitivity to change
 - d) High variability
 - (ix) Criterion validity compares the outcome tool to a gold standard
 - a) Therapist-defined scales
 - b) Personal benchmarks

- c) Comparison with gold standard
- d) Institutional policy
- (x) Minimal detectable change reflects the smallest measurable difference beyond error
 - a) Total score value
 - b) Average measurement
 - c) Smallest change beyond error
 - d) Final patient status
- (xi) A ceiling effect occurs when many patients score the highest possible value
 - a) Many score low
 - b) Spread is too wide
 - c) High scoring concentration
 - d) Mid-range shift
- (xii) The internal validity of an intervention study improves with:
 - a) High dropout rates
 - b) Selective reporting
 - c) Proper randomization and allocation concealment
 - d) Missing data
- (xiii) Critical appraisal in systematic reviews means:
 - a) Selecting favorite articles
 - b) Avoiding bias and assessing quality
 - c) Skipping irrelevant titles
 - d) Looking for citations only
- (xiv) High heterogeneity in meta-analysis indicates:
 - a) Consistency in studies
 - b) Diverse study results
 - c) High precision
 - d) Exact treatment similarity
- (xv) A case study in research focuses on:
 - a) A single event or participant
 - b) Random group samples
 - c) Experimental testing only
 - d) Financial forecasting

Group-B

(Short Answer Type Questions)

3 x 5=15

- 2. State the core components of evidence-based physiotherapy. (3)
- 3. Apply the PICO format to a question on low back pain. (3)
- 4. Describe the types of validity relevant to diagnostic tests. (3)
- 5. Construct a diagnostic reasoning model using literature. (3)
- 6. Critique an intervention study based on methodology, outcome reporting, and clinical relevance. (3)

OR

Evaluate how feedback and patient expectations contribute to clinical decision-making. (3)

Group-C

(Long Answer Type Questions)

5 x 6=30

- 7. Evaluate the impact of evidence-based practice on patient outcomes and professional development. (5)
- 8. Explain the importance of sensitivity and specificity in evaluating diagnostic tests. (5)
- 9. Interpret how likelihood ratios improve diagnostic reasoning. (5)
- 10. Describe the essential elements of a prognostic study. (5)
- 11. Explain how economic factors influence implementation of evidence-based physiotherapy. (5)
- 12. Discuss the procedure for critically appraising systematic reviews in physiotherapy practice. (5)

OR

Critically evaluate the robustness and fragility of physiotherapy intervention studies. (5)

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