

Revised for Psychology Papers IV,V at T.Y.B.A. To be brought into effect from June 2010 and the patterns question paper for them

T.Y.B.A. Paper IV – Psychological Testing and Statistics 100 marks

Section I- Psychological Testing – 50 marks

Topic I. Psychological Testing, Assessment and Norms

- a) Testing and Assessment – definitions and tools
- b) The parties and types of settings involved
- c) How are Assessments conducted?
- d) Reference sources for authoritative information about tests
- e) Various assumptions about Psychological Testing and Assessment
- f) What is a 'Good Test'?
- g) Norms- sampling to develop norms, types of norms, fixed reference group scoring systems, norm referenced versus criterion referenced evaluation
- h) Inference from Measurement – meta analysis; culture and inference

Topic II. Reliability

- a) The concept of Reliability
- b) Reliability estimates- Various methods
- c) Using and interpreting a coefficient of Reliability
- d) Reliability and individual scores

Topic III. Validity

- a) The concept of Validity
- b) Content Validity
- c) Criterion-related Validity
- d) Construct Validity
- e) Validity, bias, and fairness

Topic IV. Test Development

- a) Test conceptualization
- b) Test construction
- c) Test tryout
- d) Item analysis
- e) Test revision

Topic V. Measurement of Intelligence and Assessment of Personality

- a) What is intelligence? – Definitions and theories
- b) Measuring Intelligence
- c) The Stanford-Binet Intelligence Scales
- d) The Wechsler Tests
- e) Definitions of Personality and Personality Assessment
- f) Personality Assessment- some basic questions
- g) Developing instruments to assess Personality- logic and reason, theory, data reduction methods, Criterion groups
- h) Personality Assessment and culture
- i) Objective methods of Personality Assessment
- j) Projective methods of Personality Assessment

Section II Statistics- 50 marks

Topic VI. Types of scores, Types of scales, Frequency Distribution and Graphic representations

- a) Continuous and discrete scores- meaning and difference
- b) Nominal, ordinal, interval and ratio scales of measurement
- c) Preparing a Frequency Distribution
- d) Advantages and Disadvantages of preparing a Frequency Distribution
- e) Frequency polygon, histogram, cumulative frequency curve, ogive
- f) Smoothing a Frequency polygon- method of running averages

Topic VII. Measures of central tendency

- a) Calculation of mean, median and mode
- b) The assumed mean method for calculating the mean
- c) Merits, limitations, and uses if mean, median and mode
- d) Comparisons of the 3 Measures of central tendency

Topic VIII. Measures of Variability, Percentile, and Percentile Ranks

- a) Range and Average Deviation
- b) Quartile Deviation and Standard Deviation
- c) Calculation of the 4 Measures of Variability
- d) Merits, limitations, and uses of Range, AD, QD, and SD
- e) Comparison of the 4 Measures of Variability
- f) Percentiles- nature, merits, limitations and uses
- g) Calculation of Percentile and Percentile Ranks

Topic IX. Probability, Normal Probability Curve and Standard scores

- a) The concept of Probability
- b) Characteristics, importance and applications of the Normal Probability Curve
- c) Area under the Normal Curve
- d) Skewness- positive and negative, causes of Skewness, formula for calculation
- e) Kurtosis- meaning and formula for calculation
- f) Standard scores- z, T, stanine; linear and non-linear transformation; Normalised Standard Scores

Topic X. Correlation

- a) Meaning and types of Correlation- positive, negative and zero
- b) Graphic representations of Correlation- Scatterplots
- c) The steps involved in calculation of Pearson's product-moment correlation coefficient
- d) Calculation of rho by Spearman's rank-difference method
- e) Uses and limitations of Correlation coefficient
- f) Simple Regression and multiple Regression

T.Y.B.A. Paper V- Abnormal Psychology 100 marks

Topic I. Understanding Abnormality: Definition, classification and Assessment

- a) What is Abnormal Behaviour?
- b) The Diagnostic and Statistical Manual of Mental Disorders
- c) Psychological Assessment- Clinical interviews and Mental Status Examination
- d) Behavioural, Multicultural, Environmental, and Physiological assessment

Topic II. Theoretical Perspectives

- a) The purpose of Theoretical Perspectives in Abnormal Psychology
- b) Psychodynamic Perspective
- c) Humanistic Perspective
- d) Sociocultural Perspective
- e) Behavioural and Cognitively Based Perspectives
- f) Biological Perspective
- g) Biopsychosocial Perspectives on Theories and Treatments: An Integrative Approach

Topic III. Anxiety Disorders

- a) The Nature of Anxiety Disorders
- b) Panic Disorder and Agoraphobia
- c) Specific Phobias
- d) Social Phobias
- e) Generalized Anxiety Disorder
- f) Obsessive-Compulsive Disorder
- g) Acute Stress Disorder and Post Traumatic Stress Disorder
- h) Anxiety Disorders: The Biopsychosocial Perspective

Topic IV. Somatoform Disorders, Psychological Factors Affecting Medical Conditions and Dissociative Disorders

- a) Somatoform Disorders
- b) Psychological Factors Affecting Medical Conditions
- c) Dissociative Disorders
- d) Somatoform Disorders, Psychological Factors Affecting Medical Conditions and Dissociative Disorders: The Biopsychosocial Perspective

Topic V. Sexual Disorders

- a) What is Abnormal Sexual Behaviour?
- b) Paraphilias
- c) Gender Identity Disorder
- d) Sexual Dysfunctions
- e) Sexual Disorders: The Biopsychosocial Perspective

Topic VI. Mood Disorders

- a) General Characteristics of Mood Disorders
- b) Depressive Disorders
- c) Disorders Involving Alterations in Mood
- d) Theories and Treatments of Mood Disorders
- e) Suicide- who and why?
- f) Mood Disorders: The Biopsychosocial Perspective

Topic VII. Schizophrenia and Related Disorders

- a) Characteristics of Schizophrenia
- b) Other Psychotic Disorders
- c) Theories and Treatment of Schizophrenia

- d) Schizophrenia: The Biopsychosocial Perspective

Topic VIII. Personality Disorders

- a) The Nature of Personality Disorders
- b) Antisocial Personality Disorder
- c) Borderline Personality Disorder
- d) Histrionic, narcissistic, Paranoid, Schizoid, Schizotypal, Avoidant, Dependent and Obsessive-Compulsive Personality Disorders
- e) Personality Disorders: The Biopsychosocial Perspective

Topic IX. Development- Related, Aging- Related and Cognitive Disorders

- a) Introductory Issues
- b) Mental Retardation
- c) Pervasive Developmental Disorder
- d) Attention Deficit and Disruptive Behaviour Disorders
- e) Learning, Communication and Motor Skill Disorder
- f) Separation Anxiety Disorder
- g) Other Disorders that Originate in Childhood
- h) Development- Related Disorders: The Biopsychosocial Perspective
- i) The Nature of Cognitive Disorders
- j) Delirium, Amnestic Disorders, Traumatic Brain Injury, Dementia
- k) Cognitive Disorders: The Biopsychosocial Perspective

Topic X. Eating Disorders and Impulse Control Disorders

- a) Eating Disorders
- b) Impulse Control Disorders
- c) Internet Addiction
- d) Self-Injurious Behaviours
- e) Eating Disorder and Impulse Control Disorders: The Biopsychosocial Perspective