UNIVERSITY OF CALCUTTA

SYLLABI

FOR

THREE-YEAR HONOURS & GENERAL DEGREE COURSES OF STUDIES

PSYCHOLOGY
2010
SYLLABI OF THREE-YEAR (Hons&Genl) COURSE IN PSYCHOLOGY

PSYCHOLOGY SYLLABUS – HONOURS COURSE

PART- I

PAPER- 1                                                                                     Marks-100

MODULE 1.1                                                                                  FULL MARKS – 50
INTRODUCTION TO PSYCHOLOGY
1) Introduction- Definition, Methods and Branches of Psychology.
2) Schools of Psychology – Behavioural and Gestalt
3) Perceptual Processes:
   a) Determinants of attention, shift, fluctuation, oscillation and distraction.
   b) Sensation and Perception; Attributes of sensation.
   c) Perception of form, space, movement and time. Optical illusions.
4) 
   a) Need for quantification in Psychology, levels of measurement – nominal ordinal, interval and ratio.
   b) Processing of data:
     i) Tabulation, classification and frequency distribution of data.
     ii) Concept, types, uses and computational techniques of the measures of central tendency and dispersion.
5) Variables and their classification, major steps in psychological research.

MODULE 1.2                                                                                  FULL MARKS – 50
BASIC PSYCHOLOGICAL PROCESSES
1) Psycho-physics – concepts of sensory thresholds; Weber - Fechner Law, classical methods i) constant method ii) gradation method iii) method of average error.
2) 
   a) Learning processes: nature and factors of learning; theories: trial and error, conditioning – classical and operant; insight; transfer of training, programme learning.
   b) Memory: Nature of encoding, storage and retrieval; STM LTM, types of memory, Factors of Retrieval.
3) Motivation: Definition; Types – Biological and Social; Theories – Concept of Drive, Incentive; Maslow’s Need Hierarchy Theory and Mc Clelland’s Theory of Motivation.
4) Intelligence: Definition, Nature, Classification; Theories – Spearman, Thurstone, Guildford.
Selected Books (Texts and References):

Paper-II A

MODULE 1.3
FULL MARKS – 50
BIOLOGICAL BASES OF BEHAVIOUR

1. Biological foundation of behaviour – Genetic Basis; The Structure and function of neuron, synapsee and neurotransmitters.
2. Nervous system
   a. Central – Structure and function of Brain and Spinal Cord
   b. Autonomic Nervous System – Structure and function
c. Peripheral nervous system – Structure and neural control of behaviour
4. Neurophysiology of Learning and Memory.

Paper-II B

MODULE 1.4
FULL MARKS – 50
PRACTICAL

(PROBLEM + LNB + VIVA VOCE = 30 + 10 + 10)
1) Experimental determination of the rate of fluctuation of attention as a function of i) intensity ii) distraction.
2) Experimental estimation of the rate of perceptual reversibility by standard structure figures with and without suggestion (both flower vase/ human profile and Rubin’s cross to be used).
3) Experimental determination of the errors in temporal perception- filled and unfilled.
4) Determination of the effect of variation of task performing attentive states emotional expressions by using pneumographic reproductive instrument.

Selected Books (Texts and References):
PART-II

Paper-III

MODULE 2.1
FULL MARKS – 50
PSYCHOMETRY

1. Normal probability curve: Properties and applications.
2. Introduction to correlation: Meaning of bivariate distribution; product moment, rank difference, Biserial, point biserial, tetrachoric, phi coefficient, contingency coefficient – Computation and use.

MODULE 2.2
FULL MARKS – 50
METHODOLOGY

1. Research Problem and hypothesis: Characteristics of problems definitions, sources and criteria of good hypothesis, hypothesis and theory.
2. a. Experimental method and field study.
b. Design of experiments- i) controlling subject, situation and sequence related variable, ii) single group and separate group designs iii) quasi experimental design and time series.
3. Development and Standardisation of Psychological Test: Concept of Item Analysis; Reliability; Validity and Norms
4. Concept and assessment of Intelligence, Aptitude, Interest and Personality.

Selected Books (Texts and References):
MODULE 2.3
FULL MARKS – 50
DEVELOPMENTAL AND EDUCATIONAL PSYCHOLOGY
1. Concept and definition of development, role of genetic and environmental factors in development.
2.
   a) Pre natal development
   b) Physical, speech, emotional, cognitive, moral, social and personality development in each stage of life span.
3. Understanding exceptional children- classification characteristics education of different classes of exceptional children (Gifted, Mentally Retarded and Delinquent).

Paper-IV B

MODULE 2.4
FULL MARKS – 50
PRACTICAL
(Problem + LNB + Viva Voce = 30 + 10 + 10)
1. Determination of the two point tactual thresholds by appropriate psycho-physical methods (constant and gradation).
2. Determination of DL using kinaesthetic sense modality using appropriate psycho-physical methods (constant and gradation) and Verification of Weber’s law.
3. Determination of the effect of a) whole vs. part learning b) unspaced vs. spaced learning c) Proactive Inhibition and d) Retroactive Inhibition on memorization.

Selected Books (Texts and References):

PART-III

Paper-V

MODULE 3.1
FULL MARKS- 50
SOCIAL PSYCHOLOGY
1. Social organization, social interaction; person perception, attribution.
2. Attitude: definition, formation of attitude, theories, measurement; change of attitude.
3. Group psychology: Definition and classification of group; group structure and function.
Conformity and compliance. Leadership: definition, classification and function.
Leadership and morale.
4. Stereotype, prejudice and discrimination; concept and origin, measurement;
Reduction of prejudice.
5. Self: Self Knowledge – Origin and Aspects; Self – Regulation; Social Comparison theory;
Culture and Self.

MODULE 3.2
FULL MARKS- 50
HEALTH AND COUNSELLING PSYCHOLOGY
3. Theories of personality – (a) Psychodynamic – Freud (b) Behavioural- Eysenck
4. Concept of adjustment – mental health, mental hygiene, criteria and factors of adjustment, frustration and conflict.
5. Counselling: meaning, purpose and steps.
MODULE 3.3
FULL MARKS- 50
PRACTICAL
(Problem + LNB + Viva Voce = 30 + 10 + 10)
1. Determination of ethnic prejudice by a suitable method.
2. To determine the effect of group influence on problem solving.
3. To determine the cohesiveness of a small group by sociometric method.

MODULE 3.4
FULL MARKS – 50
PRACTICAL
(Problem + LNB + Viva Voce = 30 + 10 + 10)
1. Determination of the effect of set on simple reaction time by variation of a) instruction b) foreperiod.
2. Determination of complex reaction time: a) discriminative and b) choice reaction time.
3. Construction of attitude questionnaire to determine attitude towards any one of the following social institutions or ideas by Likert’s Scale.
   Institution
   a. Marriage
   b. Religion
   c. Family
   d. Institutionalisation of the Elderly
   Ideas
   e. Reservation
   f. Capital Punishment
   g. Euthanasia
   h. Globalisation

Selected Books (Texts and References):
Paper-VII
Marks-100

MODULE 3.5
FULL MARKS- 50

INDUSTRIAL PSYCHOLOGY AND ORGANISATIONAL BEHAVIOUR
1) Introduction. Concept of industrial psychology and organizational behaviour.
2) Personnel selection - basis and Methods of Selection, Job Analysis - methods, measurement and uses.
3) Content theories of work motivation, job satisfaction and job involvement.
4) Working conditions (a) Physical (illumination, noise, colour, temperature, humidity and pollution). (b) Temporal (work schedule, shift work and rest period). (c) Psychological (boredom, fatigue and monotony) condition at work. Accident prevention

MODULE 3.6
PSYCHOPATHOLOGY
FULL MARKS- 50

1) Concepts of normality, abnormality and psychopathology.
2) Current classification of mental disorders (According to APA) – Concept of neurotic, psychotic, psycho-physiological disorders.
3) Signs, Symptoms and Etiology of Anxiety disorder – Generalized anxiety disorder, phobia and obsessive compulsive disorder.
4) Signs, Symptoms and Etiology of Somatoform disorders – Somatization and Conversion
5) Signs, Symptoms and Etiology of Mood disorders – Major Depressive Disorder and Bipolar disorders.
6) Signs, Symptoms and Etiology of Schizophrenia – Paranoid, Disorganized, Catatonic, Undifferentiated, Residual.

Paper-VIII

MODULE 3.7
FULL MARKS – 50
PRACTICALS
(Problem + LNB + Viva Voce = 30 + 10 + 10)
1) Measuring intelligence by (i) Koh’s block design test and (ii) Cube construction test.
2) Measuring intelligence of an adult individual using Binet – Kamath Test of Intelligence.
Determination of (a) interest by a standardized interest inventory – Guildford Zimmerman Interest Inventory and Strong and Deb Interest Inventory (b) Aptitude by Differential Aptitude Test (English version of Ojha) (i) Numerical Ability (ii) Verbal Reasoning.

MODULE 3.8
FULL MARKS- 50
PRACTICAL
(Problem + LNB + Viva Voce = 30 + 10 + 10)
1. Personality testing – Eysenck Personality Questionnaire.
2. Determination of levels of anxiety using any suitable test (Indian adaptation)
3. Ergographic determination of nature and amount of work and fatigue and the conditions of: (a) varying rhythm (b) varying rest pause and (c) varying load.

Selected Books (Texts and References):

PSYCHOLOGY – HONOURS COURSE OF STUDY

MARKS DISTRIBUTION FOR EXAMINATION PURPOSE FOR EACH THEORETICAL MODULE

1. Two questions of 5 marks each out of 4 choices (Word Limit for each answer- 300)
2. One question of 10 marks out of 3 choices (Word Limit for each answer- 800)
3. Two questions of 15 marks each out of 4 choices (Word Limit for each answer- 1000)

EXAMINATION TIME FOR EACH THEORETICAL MODULE 2 HOURS

MARKS DISTRIBUTION FOR EXAMINATION PURPOSE FOR EACH PRACTICAL MODULE

1. Experiment/ Testing - 30
2. Laboratory Note Book - 10
3. Viva Voce - 10

EXAMINATION TIME FOR EACH PRACTICAL MODULE 2 1/2 HOURS
PSYCHOLOGY SYLLABUS – GENERAL COURSE

Part-I
Paper-I (F.M. 100)

Module 1.1
THEORY- 50 Marks
a) Basic Psychological Processes
1. Introduction – Definition, Nature, Scope, Methods, Branches of Psychology
c.) Attention – Determinants of Attention. Fluctuation, Oscillation and Shifts.

b) Biological Bases of Behaviour
4. a) CNS – Brain and Spinal Cord
b) PNS- Nerve Cell and its functions. Receptors and Effectors.
5. Endocrine Glands – Pituitary and Adrenal.

Module 1.2
THEORY-50 Marks
a) Developmental Psychology
1. Introduction – Definition, scope, methods.
3. Child Development – Prenatal development; Postnatal development upto adolescence – physical and social.

b) Educational Psychology
6. Memory and Forgetting – a) Encoding, Storage, Retrieval. Sensory, STM, LTM.
c) Decay, Interference, Retrieval failure, Motivated forgetting.
Part II

Module 2.1
Paper IIA
THEORY-50 Marks
a) Social Psychology
1. Introduction: Nature, scope and methods
2. Social Interaction: Conformity; Cooperation; Norms, Attitude and Values.

b) Industrial Psychology
5. Introduction: Aim, scope and methods.
   Accidents in Industry: Causes and Prevention.

Module 2.2
Paper IIB
PRACTICAL – 50 Marks
[Experiment/ Testing- 20; Statistics-10; LNB-10; Viva-10]
1. Frequency Distribution and Graphical Representation (Polygon, Histogram, Bar Diagram, Pie Chart).
2. Measures of Central Tendency (Both long and short method)
3. Span of Attention; Fluctuation of Attention (Determination using intensity)
4. Assessment of Intelligence by a suitable Culture Fair Test – (Raven’s Progressive Matrices Test).
5. Assessment of intelligence by a performance test – Dearborn’s Form board OR KOH’s block design.

Module 2.3
Paper IIIA
THEORY-50 Marks
a) Psychopathology
1. Introduction: Definition of psychopathology. Concept of abnormality: Criteria of normality.
2. Determinants of Abnormal Behaviour : a) Biological; b) Psychological;
   c)Socio-Cultural
3. Methods of studying abnormal behaviour : Case History; Interview;
Psychometric; Projective.
4. Symptoms of: I) Schizophrenia – Paranoid; Disorganized; Catatonic; Undifferentiated and Residual Type.
II) Mood Disorders – Major Depressive and Dysthymic disorders.
III) Anxiety Disorders – Generalized Anxiety Disorder; Phobia; Obsessive and Compulsive Disorder.

b) Adjustment
5. Introduction: Concept of adjustment; Mental Health; Mental Hygiene; Criteria and factors of adjustment.
6. Stress: Concept, Types of Stress, Frustration and Conflict.
7. Reaction to stress: Generalized principles of adjustive behaviour; Task oriented and defence oriented reaction patterns.

Module 2.4
Paper IIIB
PRACTICAL – 50 Marks
[Experiment/ Testing- 20; Statistics-10; LNB-10; Viva-10]
1. Measures of variability – AD, SD, Quartile
2. Correlation – Rank difference.
3. Determination of the affective values of colours by the method of impression.
4. Assessment of neurotic evidence of personality by any suitable test (KNPI).
5. Designing and conducting experiments on Memory
a) Learning method using nonsense and meaningful materials.
Whole vs. Part learning.

[The four semesters cover papers I, II, and III respectively. Total 300 marks]

4 Selected Books (Texts and References): Part-I and Part II
Module 3.2
Part III
Paper IVB
PRACTICAL – 50 Marks

[Testing- 30; LNB-10; Viva-10]
Application of Psychological Tests
1. Personality test – EPQ
2. Verbal Intelligence Test – Terman- Merrill
3. Strong and Deb Vocational Interest Blank or Guildford Zimmerman Interest Inventory
4. Aptitude Test – D.A.T (Selected Parts- Spatial Relation and Mechanical Aptitude).

[Semesters 5 and 6 comprise paper IVa, and IVb. Total 100 marks.]
Book Agency.
5. ___, ___: _____ * ___ _/ _/ ___ (O _3_1), __W__ (X_ , _ _ _ _ ___ !
6. ___, '_AD___ : _V__ _/ _/ ___ (O _3_1), _$% ________ , _ _ _ _ ___ !

PSYCHOLOGY – GENERAL COURSE OF STUDY

MARKS DISTRIBUTION FOR EXAMINATION PURPOSE FOR EACH

THEORETICAL MODULE

1. Two questions of 5 marks each out of 4 choices (Word Limit for each answer- 250)
2. One question of 10 marks out of 3 choices (Word Limit for each answer- 500)
3. Two questions of 15 marks each out of 4 choices (Word Limit for each answer- 800)

EXAMINATION TIME FOR EACH THEORETICAL MODULE 2 HOURS

MARKS DISTRIBUTION FOR EXAMINATION PURPOSE FOR EACH

PRACTICAL MODULE

1. Experiment/ Testing - 20
2. Statistics - 10
3. Laboratory Note Book - 10
4. Viva Voce - 10

EXAMINATION TIME FOR EACH PRACTICAL MODULE

1 Hour - Statistics
2 Hours - Experiment/ Testing