# UNIVERSITY GRANTS COMMISSION NET BUREAU

Code No.: 04

Subject : PSYCHOLOGY

SYLLABUS AND SAMPLE QUESTIONS

#### Note:

There will be two question papers, paper-II and paper-III (Part-A & B). Paper-II will cover 50 objective Type Questions (Multiple choice, Matching type; True/False, Assertion-Reasoning type) carrying 100 marks. Paper-III will have two Parts-A and B; Paper III (A) will have 10 short essay type questions (300 words) carrying 16 marks each. In it there will be one question with internal choice from each unit (i.e., 10 questions from 10 units; Total marks will be 160). Paper-III (B) will be compulsory and there will be one question from each of the Electives. The candidate will attempt only one question (one elective only in 800 words) carrying 40 marks. Total marks of Paper-III will be 200.

#### PAPER - II

# 1. Perceptual Processes

Approaches to the Study of Perception : Gestalt and physiological approaches Perceptual Organization : Gestalt, Figure and Ground, Laws of Organization

Perceptual Constancy: Size, Shape and Brightness, Illusion; Perception of Depth and Movements.

Role of motivation and learning in perception

# 2. Learning Process

Classical conditioning: Procedure, Phenomena and related issues Instrumental learning: Phenomena, Paradigms and theoretical issues

Reinforcement: Basic variables and schedules

Verbal learning: Methods and materials, organizational processes

# 3. Memory and forgetting

Memory processes: Encoding, Storage, Retrieval

Stages of memory: Sensory memory, Short-term Memory (STM) and Long-term

Memory (LTM)

Episodic and Semantic memory

Theories of Forgetting: Interference, decay, retrieval

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# 4. Thinking and Problem Solving

Theories of thought processes: Associationism, Gestalt, Information processing

Concept formation: Rules and strategies

Reasoning: Deductive and inductive

Problem-solving: Type and strategies

Role of concepts in thinking

### 5. Motivation and Emotion

Basic motivational concepts: Instincts, needs, drives, incentives, motivational cycle Approaches to the study of motivation: Psychoanalytical, ethological, S-R Cognitive, humanistic

Biological Motives: Hunger, thirst, sleep and sex

Social Motives: Achievement, affiliation, approval

Exploratory behaviour and curiosity

Physiological correlates of emotions

Theories of emotions: James-Lange, Canon-Bard, Schachter and Singer

Conflicts: Sources and types

#### Human Abilities

Intelligence: Biological, Social, Eco-cultural determinants

Theories of intelligence: Spearman, Thurston, Guilford

Individual and group differences: Extent and causes

Measurement of human abilities

# 7. Personality

Determinants of personality: Biological and socio-cultural

Approaches to the study of personality: Psychoanalytic, neo-freudian, social

learning, trait and type, cognitive

Personality assessment: Psychometric and projective tests

Self-concept: Origin and development

# 8. Research Methodology

Research problems, hypothesis, variables and their operationalization

Types of psychological research

Methods of psychological research: Experimental, Quasi-experimental, case studies, field studies and cross-cultural studies.

Methods of data collection: Observation, interview, questionnaire, tests and scales.

Non-parametric tests

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# Measurement and testing

Test construction: Item writing, item analysis

test standardization: Reliability, validity and norms

Types of tests: Intelligence, aptitude, personality - characteristics and important examples

Attitude scales and interest inventories

Educational measurement and evaluation

# 10. Biological Basis of Behaviour

Receptors, effectors and adjuster mechanisms

Neural impulse: Origin, conduction and measurement

Sensory system: Vision and Audition

Human nervous system: Structure and functions

# PAPER - III (A)

[CORE GROUP]

#### Unit-I

Signal detection theory, subliminal perception and related factors, information processing approach to perception, culture and perception, perceptual styles. Ecological perspective on perception.

#### Unit-II

Learning theories: Hull, Tolman, Skinner

Cognitive approaches in learning: Latent learning, observational learning

Experimental analysis of behaviour : Behaviour modification, shaping Discrimination learning

Neurophysiology of learning

#### Unit - II

Models of memory: Atkinson and Shiffrin, Craik and Lockhart, Tulving

Semantic memory: Episodic, trace model and network model

Long-term memory: Retrieval cues, flashbulb memory, constructive processes in memory, eyewitness testimony, autobiographical memory

Biological basis of memory: The search for the engram, PET scan, and biochemical factors in memory

Improving memory: Strategies

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### Unit - IV

Cognitive strategies: Algorhythms and heuristics

Convergent and divergent thinking

Decision-making; impediments to problem - solving

Creative thinking and problem-solving

Language and thought

### Unit-V

Historical antecedents of motivation from Mechanism to Cognition

Cognitive bases of motivation: Intrinsic motivation, Attribution, Competence

Measurement of motives: Issues and techniques

Cross-cultural perspectives of motivation: Achievement, Aggression

Components of emotion: Physiological, expressive and cognitive

Neural mechanism of emotion: Central and peripheral

Measurent of emotions: Physiological, expressive and cognitive measures

Current theories of emotions and facial feedback hypothesis

Stress and coping: Reactions to stress, outcomes of stress

### Unit-VI

Theories of intelligence: Cattell, Jensen, Sternberg Goleman

Creativity: Views of Torrance, Getzels, Guilford

Intelligence and creativity: Relationship

Abilities and achievement: Concept and role of emotional intelligence

#### Unit - VII

Clinical and growth approaches to personality

Existential and humanistic theories of personality : Frankl, Rollo May, Maslow, Rogers

Personality assessment: Projective, psychometric and behavioural measures

Psychology of self: Western and Eastern perspectives, measurement of self

#### Unit-VIII

Research designs: Correlational, factorial, randomized block, matched group, quasi-experimental, time series design

ANOVA :Randomized and repeated

Correlational analysis: Partial, multiple and regression analysis

Factor analysis: Assumptions, methods, rotation and interpretation

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### Unit-IX

Psychological scaling: Purpose and methods

Sources of bias in psychological testing

Ethical issues in psychological testing

Application of factor analysis in standardization of tests-with important illustrations

#### Unit-X

Methods of Physiological psychology: Lesion and Brain Stimulation

Sleep and waking: Stages of sleep, Disorders of sleep and Physiological

mechanisms of sleep and waking

Ingestive Behaviour: Drinking and its neural mechanism; hunger and its neural

mechanism

Endocrine system: Chemical and glandular

### PAPER - III (B)

[ELECTIVE/OPTIONAL]

#### Elective-I

Current trends in Social Psychology

Social cognition

Social influence

Prosocial behaviour

Applied social psychology: Health, Environment and Law

#### Elective-II

Development processes: Nature, Principles and related

concepts - maturity, experience factors in development : Biogenic, Psychogenic and Sociogenic

Stages of Development : Theories of Development : Psychoanalytic, Behaviouristic and cognitive

Various aspects of development: Sensory-motor, cognitive, language, emotional, social and moral

#### **Elective-III**

Human development and individual differences

Motivation and learning

\* Factors in educational achievement

Social psychology of education

Teacher effectiveness

Guidance in schools: Needs, organizational set up and techniques

Counselling: Process and areas

and

### Elective-IV

Development of industrial and organizational psychology

Selection processes in organization

Organizational training

Performance appraisal

Motivation and work

Leadership

Work environment

Organizational behaviour: Theories, socialization, effectiveness

### Elective-V

Psychopathology: Concepts, classification and causes: clinical diagnostics

Common clinical disorders

Mental retardation

Mental Health: Intervention models and psychotherapies

# SAMPLE QUESTIONS PAPER-II

- Delayed conditioning is known as
  - (A) CS begins far before the US is presented
  - (B) CR gets established but it changes
  - (C) CS elicits the CR
  - (D) CS is more powerful than CR
- 2. Match the items of List-I with List-II

	List-I				List-II
Λ.	Needs			1.	McDougall
B.	Instinct	S		2.	Allport
C.	Sentiments			3.	Murray
D.	Traits			4.	Freud
(A)	Α	В	C	D	
	4	1	2	3	
(B)	Α	В	C	D	
	3	4	1	2	
(C)	Α	В	C	D	
	2	1	3	4	
(D)	A	В	C	D	
	1	3	4	2	

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- 3. Mohit is a young man who strives for excellence and feels satisfies when he can master a new task. Mohit has a need for
  - (A) Competence
  - (B) Power
  - (C) Approval
  - (D) Achievement

### PAPER-III (A)

1. How would you measure job satisfaction?

Or

Explain the concept of time and motion study.

# PAPER-III (B)

11. Define short-term memory and indicate its processes and functions.

Or

Discuss the causes, symptoms and treatment of general anxiety disorder.

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