Unit - I

Biological Bases of Behaviour & Perceptual processes:
Genes and Behaviour: Chromosomes
Receptors, Effectors and Adjuster Mechanisms.
Neural Impulse: Origin, Conduction and Measurement.
Human Nervous System: Peripheral Nervous System (PNS), Central Nervous System (CNS), Neurotransmitters.
Sensory Systems and Psychophysics: Vision and Audition, Major concepts of Psychophysics, Classical and Modern.
Perception: Gestalt and Physiological Approaches
Perceptual Organization: Gestalt, Figure and Ground, Laws of Organization, Attentional Process.

Unit - II

Learning and Memory Processes:
Instrumental Learning: Phenomena, Paradigm and Theoretical issues.
Reinforcement: Basic Variables and Schedules.
Memory Processes: Encoding, Storage, Retrieval.
Stages of Memory: Sensory Memory, Short-term Memory (STM) and Long-term Memory (LTM)
Episodic, Semantic and Procedural Memory.
Theories of Forgetting: Interference, Decay and Retrieval.

Unit - III

Motivation, Emotion and Thinking:
Motivation: Psychoanalytical, Ethological, S-R, Cognitive, Humanistic Approaches.
Biological and Social Motives.
Physiological Correlates of Emotions, Positive Emotions.
Theories of Emotions: James-Lange, Canon-Bard, Schachter and Singer.
Conflicts: Sources and Types.
Thinking: Nature and Types.
Concept Formation: Types and Theories.
Reasoning: Deductive and Inductive.
Problem-Solving: Type and Strategies.
Creativity: Nature and Types, Divergent Thinking.
Unit - IV
Human Abilities and Personality:
Intelligence : Biological, Social, Eco-cultural Determinants.
Theories of Intelligence : Spearman, Thurston, Guilford, Cattell, Sternberg, Jenson, Gardener.
Measurement of Intelligence.
Personality : Biological and Socio-cultural Determinants, Psychoanalytic, Neo-Freudian, Social Learning, Trait and Type, Cognitive Approaches.
Personality Assessment : Psychometric and Projective Tests.
Self-concept : Origin and Development.

Unit - V
Research Methodology and Psychological Testing:
Research problem, hypothesis, variables and their operationalization. Types of psychological Research: Qualitative and Quantitive.
Methods of Data Collection : Observation, Interview, Questionnaire, Tests and Scales.
Parametric and Non-parametric tests.
Test Construction: Item Writing, Item Analysis.
Test Standardization: Reliability, Validity and Norms
Types of Tests: Intelligence, Aptitude, Personality, Attitude and Interest.

Note :- Pattern of Question Paper

1. Objective type paper
2. Maximum Marks : 75
3. Number of Questions : 150
4. Duration of Paper : Three Hours
5. All questions carry equal marks.
6. There will be Negative Marking.