

SYLLABUS**PSYCHOLOGY PAPER – 1****Unit – I: Biological Bases of Behaviour & Perception**

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: Vision and Audition. Psychophysics: Concept and Methods (Classical and Modern Methods). Attention: Types and Functions 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. Figural after effects, Perceptual Defense, Perceptual vigilance, Cognitive Styles (Field Dependence and Independence).

Unit – II: Learning and Memory

Classical Conditioning: Procedure, Phenomena and related issues. Instrumental Learning: Phenomena, Paradigm and Theoretical issues. Reinforcement: Basic Variables and Schedules. Verbal Learning: Methods and Materials, Organizational processes. Transfer of Learning. Cognitive Learning: Nature and Types. Memory Processes: Encoding, Storage, Retrieval. Stages of Memory: Sensory Memory, Short-term Memory (STM) Iconic and echoic, Long-Term Memory (LTM) Episodic, Semantic and Procedural Memory. Theories of Forgetting: Interference, Decay and Retrieval Failure.

Unit – III: Motivation, Emotion and Thinking

Basic Motivational Concepts: Instincts, Needs, Drives, Incentives, Motivational Cycle, Intrinsic & Extrinsic Motivation, Frustration of Motives. Motivational Approaches: Psychoanalytical, Ethological, S-R, Cognitive, Humanistic Approaches. Types of Motives: 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: Stages and Strategies. Creativity: Nature and Measurement.

Unit – IV: Human Abilities and Personality

Intelligence: Biological, Social, Eco-cultural determinants. Theories of Intelligence: Spearman, Thurston, Guilford, Cattell, Sternberg, Jenson, Gardener, Goleman, Das, Kar & Parrila. Measurement of Intelligence: Individual & Group Tests, Verbal and Non-Verbal tests, Performance tests. Personality: Meaning & Determinants (Biological, Psychological and Socio cultural) Trait and Type Approaches, Psychoanalytic, Neo-Freudian, Social Learning, Cognitive Approaches. Personality Assessment: Self-report inventories and Projective Tests. Self-concept, Self-esteem, & Self-Efficacy.



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UNIT-V: Research Methodology and Psychological Testing

Research problem, hypothesis, variables and their operationalization, Research designs (Experimental, Ex-post Facto & Factorial). Paradigms of Research: Quantitative, Qualitative and Mixed methods. Methods of Research: Observation, Interview, Experimental, Case Studies, Field Studies, Phenomenology, Grounded Theory, Focus Group, Ethnography. Test Construction: Item Writing, Item Analysis. Test Standardization: Reliability, Validity and Norms. Types of Tests: Intelligence, Aptitude, Personality, Attitude, Interest and Neuropsychological tests. Sampling & Errors in Measurement. Parametric and Non-parametric tests: Measures of Central Tendency and Dispersion; Parametric Test [t-test and ANOVA]; Non-Parametric Test [Sign test, Mann-Whitney, Rank Test, Kruksal- Wallis test, Friedman test], Correlation and Regression.



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