

SYLLABUS FOR PHD ENTRANCE EXAM

Psychology and Research Methodology

PSYCHOLOGY SYLLABUS

1. Foundations of Psychology

- Schools of thought: Structuralism, Functionalism, Behaviourism, Gestalt, and Psychoanalysis

2. Biological Basis of Behaviour

- Neurons, synapses, neurotransmitters
- CNS and PNS, brain structures, endocrine system

3. Sensation, Perception, and Attention

- Sensory processes, perceptual organization, illusions, attention types

4. Learning and Conditioning

- Classical, operant, observational learning
- Reinforcement, punishment, cognitive theories

5. Memory and Cognition

- Types of memory, encoding, retrieval, forgetting
- Thinking, reasoning, problem solving

6. Developmental Psychology

- Piaget, Erikson, Kohlberg
- Physical, emotional, and social development

7. Personality

- Trait, psychoanalytic, humanistic, behavioural theories
- Personality assessment

8. Motivation and Emotion

- Theories of motivation and emotion
- Stress and coping

9. Social Psychology

- Attitudes, conformity, obedience, group processes
- Prejudice, aggression, and prosocial behaviour

10. Abnormal Psychology

- Overview of disorders and therapies

RESEARCH METHODOLOGY SYLLABUS

1. Foundations of Research

- Definitions, characteristics, types of research
- Variables

2. Research Design

- Experimental and non-experimental designs
- Survey, correlational, case study approaches

3. Sampling Methods

- Probability and non-probability sampling
- Sampling error and sample size

4. Hypothesis & Problem Formulation

- Types of hypotheses, aims, and objectives

5. Data Collection Methods

- Observation, interview, questionnaire
- Psychological tests and scaling techniques

6. Measurement, Reliability & Validity

- Levels of measurement
- Types of reliability and validity

7. Data Analysis & Statistics

- Descriptive statistics
- Correlation, t-test, ANOVA, chi-square
- Errors and significance

8. Qualitative Research

- Methods, coding, themes

9. Ethics in Research

- Consent, confidentiality, plagiarism

10. Report Writing

- Structure, APA basics