

# **Psychology**

## **Syllabus for PART-I**

### **I. Research Aptitude :**

Research: Meaning, characteristics and types;  
Steps of research;  
Methods of research;  
Research Ethics;  
Paper, article, workshop, seminar, conference and symposium;  
Thesis writing: its characteristics and format.

### **II. Teaching Aptitude :**

Teaching : Nature, objectives, characteristics and basic requirements;  
Learners characteristics;  
Factors affecting teaching;  
Methods of teaching;  
Teaching aids;  
Evaluation systems.

## **Syllabus for PART-II**

### **Unit 1 : SENSATION, ATTENTION AND PERCEPTION :**

- 1.1] **Sensation** - Introduction to Psychophysics : Basic concept and methods.
- 1.2] **Attention** - (a) Function of attention : Divided attention, Selective attention, (b) Theories of attention process, (c) signal detection theory and vigilance.
- 1.3] **Perception approaches** - Gestalt – Up (Feature analysis, Template matching, prototypes) Top – Down – and Pandemonium.
- 1.4] **Perception** - Cross cultural studies.
- 1.5] **Application** - Subliminal perception, perceptual defence, and extra sensory perception.

### **Unit 2 : PROBLEM SOLVING CREATIVITY AND DECISION MAKING:**

- 2.1] **Problem** - Definition, problem solving cycle, types, obstacles and aids.
- 2.2] **Problem solving approaches** - Algorithm : heuristics ; means – end analysis, computer simulation and analogy.
- 2.3] Definition of creativity, measurement creativity.
- 2.4] **Reasoning and decision making** : Types of reasoning – syllogistic and conditional ; factors influencing decision making.
- 2.5] **Application** : Artificial intelligence.

### **Unit 3 : RELIABILITY VALIDITY :**

- 3.1] Definition and types of Reliability and validity.
- 3.2] Correlation co-efficient : meaning, statistical significance, reliability co efficient.
- 3.3] Reliability of speeded tests and sample tested.
- 3.4] Content description, validation, criterion prediction, construct identification, procedures.
- 3.5] Using reliability information and test validity and decision theory.

#### **Unit 4 : CORRELATION AND REGRESSION :**

- 4.1] Concept and Meaning of correlation.
- 4.2] Pearson's product – moment correlation.
- 4.3] Point – Biserial correlation and phi co-efficient.
- 4.4] Bi – serial and tetra choric correlation.
- 4.5] Partial and multiple correlation.
- 4.6] Simple linear Regression : concept and uses

#### **Unit 5 : INFERENTIAL STATISTICS :**

- 5.1] Inferences - Standard error of mean and other statistics.
- 5.2] Significance of difference for means variances and correlation co-efficients.
- 5.3] Assumptions of Analysis of variance, and one way ANOVA – Independent, Concept of repeated measures.
- 5.4] Two – way ANOVA – Independent, Concept of repeated measures
- 5.5] Analysis of Covariance : Concept.

## **Unit 6 : TYPES OF MEMORY AND NEUROLOGICAL BASIS OF LEARNING AND MEMORY :**

- 6.1] Sensory memory, Iconic memory, echoic STM, LTM, With types and determinants of memory.
- 6.2] Brain area associated with learning and memory.
- 6.3] Types of Amnesia after concussion (Anterograde, Retrograde) Korsakoff, Alzheimer's disease. Studies on role of brain in learning and conditioning.
- 6.4] Synaptic mechanisms and synaptic plasticity of learning and memory.
- 6.5] Application : Neuro – linguistic programming.

## **Unit 7 : EXPERIMENTAL QUST EXPERIMENTAL DESIGNS :**

- 7.1] Experimental designs : Definition, principles and functions.
- 7.2] Between group designs : Randomized group designs, Block group designs, Block designs (a) Two group designs, (b) Randomized block designs with more than two groups.
- 7.3] Factorial designs : Simple factorial designs, Factorial designs with covariate, randomized block factorial designs.
- 7.4] Characteristics of and Types of Quasi experimental designs, Non equivalent control group designs, discontinuity, aromotion designs time series designs, cohort designs, Pre test – Post test design.
- 7.5] Scaling, purpose, Psychophysical scaling psychological scaling, Thurston type scale - and Likert types scale.

## **Unit 8 : SOCIAL PSYCHOLOGICAL APPROACH :**

- 8.1] Definition Method and problems of social psychology.
- 8.2] Social perception, self perception, social cognition, Attribution process.
- 8.3] Attitude measurement, change, components, prejudices and discrimination.
- 8.4] Interpersonal attraction and communication, Need for social attraction, factors underline inter personal attraction. Altruism, Types of Communication.
- 8.5] Group dynamics and leadership, Group structure influence, leadership functions theories and types, function and types of group.

## **Unit 9 : PERSONALITY :**

- 9.1] Approaches and methods.
- 9.2] Dispositional and psychoanalytical perspective.
- 9.3] Social and cognitive learning perspective.
- 9.4] Biological perspective and Neo psychoanalytical perspective.
- 9.5] Phenomenological and exintential perspective.

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