

PAPER-VIII: EXPERIMENTAL PSYCHOLOGY (THEORY) (Optional)

Main Objective:

- To make students conversant with the key concepts and vocabulary of experimental psychology.
- To acquaint the students to methods and application of psychology as experimental science.

The Scheme of the Question Paper

- The paper will be consisting of five units.
- There will be two chapters in each unit.
- Every chapter in the unit should be given equal weightage in the examination.

Marking Scheme

- Total Marks: 100 70 Marks for External Examination
30 Marks for Internal Assessment
- Duration of Examination: 03Hours
- Each unit carry equal marks in the question paper
- Each chapter in the unit should have equal weightage of 07 marks
- The paper will consist of following five units

Units	Topic of Unit	Marks of Unit
Unit: 1	The scope of experimental psychology and psychophysical methods	14
Unit: 2	The psychophysical methods 1 & 2	14
Unit: 3	Association and Measurement of learning	14
Unit: 4	Verbal learning and Maze learning	14
Unit: 5	Retention and cognitive behaviour	14
Total Marks		70

Paper-VIII EXPERIMENTAL PSYCHOLOGY (Theory)

Unit-1 The Scope of Experimental Psychology and Psychophysical Methods

Chapter-1 The Scope of Experimental Psychology

- Definition and nature of experiment
- Experimental psychology as method
- Variables
- Experimental and control group
- Forms of behavior studied in Experimental psychology

Chapter-2 Attention

- Definition and nature of attention
- Determinants of attention
- Fluctuation of attention
- Distraction of attention
- Span of attention
- Division of attention

Unit-2 The Psychophysical Methods 1 & 2

Chapter-3 The Psychophysical Methods-1

- The basic concepts of psychophysics
- Method of minimal changes

- Rank order method

Chapter-4 The psychophysical methods-2

- Method of constant stimuli
- Method of average error
- Method of pair comparison

Unit-3 Association and Measurement of learning

Chapter-5 Association

- The concept of association
- Types of verbal association
- Classification of association
- Clinical and diagnostic use of verbal association

Chapter-6 Measurement of Learning

- Definition of basic concepts
- Types of learning
- Measurement of learning
- Learning curves

Unit-4 Verbal learning and Maze Learning

Chapter-7 Verbal Learning

- Methods of practice
- Basic variables of learning experiments
- Performance as a function of what is learned (Effects of learning material on learning)
- Performance as a function of how learning proceeds (Effects of learning methods on learning)

Chapter-8 Maze Learning

- Factors of Maze Learning (Types of Maze)
- Measurement of Maze Learning
- Experimental Results of Maze Learning
- Effects of Result's Knowledge on Motor Learning
- How maze learn?

Unit-5 Retention and Cognitive Behaviour

Chapter-9 Retention

- The measurement of retention
- Retention as a function of the conditions of learning
- Retroactive inhibition
- The concepts and determinants
- Transfer of learning

Chapter-10 Cognitive Behaviour

- The meaning and types of concept
- Concept learning
- Experiments on concept learning
- Naming experiments
- Sorting experiments
- Problem solving
 - o Trial and error in problem solving
 - o Insight in problem solving

Basic Books:

1. Leo Postman and Jams P. Egan, "Experimental Psychology"(An Introduction) Edition - 2008 Srishti Book Distributors.
2. M.R.D'amato,"Experimental Psychology" TMH Edition, McGraw-Hill Publishing Company, New Delhi.