

Paper –101 Advanced Experimental Psychology (Theory)

1. Main Objectives :

- This course aims to Familiarize students with experimental methods and various designs of experiments .

2. The Scheme of question paper:

1. The paper will consist four units:
2. Each Unit Should be given equal weightage in examination
3. Total Marks are: 100.

70: External Examination

30: Internal evaluation

(Duration of examination: 3 hour s)

Unit-1 Experimentation in Psy. Research, Control of Relevant Variables

Concept of Experimental Psychology
Psychological Research
Psychology and the concept of Variables
Three types of control techniques
Three classes of Relevant variables
Control of subject Relevant variable
Control of Situation Relevant variable
Control of sequence Relevant variable

Unit-2 Current and Future Trends in Experimental Psychology:

Alternations to scientific Methodology Postmodernism
The Historical Development of Scientific Methodology.
Justifying Scientific method.
Implications of a Naturalistic Approach Methodology.

Unit-3 Classical Psychophysics and Operant Conditioning:

Basic concepts of Psychophysics
The methods of Limits
The Methods of constant stimuli
The method of average error.
The Just noticeable difference and Weber's law.
Some Important features of operant conditioning
Control concepts in operant conditioning.
Schedules of Reinforcement

Unit-4 Verbal Learning, Retention and Forgetting , Factorial Design

Introduction, The subjects, The materials, The Tasks
Some basic determinants of verbal learning
Organizational Process in verbal learning

Retention and forgetting of verbal learning
The measurement of verbal learning
Theories of Forgive
Experimental Design with a single Independent variable
Quasi-Experimental Designs
Factorial Designs
Reasons for Selection a factorial designs

Books

1. **M.R.D' amato (2006)** : Experimental Psychology: Methodology Psychophysics and Learning TMH Edition – Fifteenth Reprint (2006)
2. **Stephen F Davis (2005)** : Handbook of Research methods in Experimental Psychology, Edited by Steephren F Davis, Blackwell publishing 35, Main Street Maldon, NA 02148-5020 U.S.A.
3. **Barry and Morton (1985)** : Experimental methods in psychology, Mc Graw Hill
4. **Broota K.D.(1992)** : Experimental Designs in Behavioural research New Delhi, Wiley Estern
5. **Robert L. Solso (2002)**
M. Kimberly Maclin : Experimental Psychology, Pearson Education P.Ltd. Indian Branch
6. **Prof. C.B. Dave and others (1998)** : Experimental Psychology Theory and Statistics Viral Prakashan – A'bad