

SUBJECT : EXPERIMENTAL PSYCHOLOGY (THEORY)
SPECIAL PAPER - III
With Effect From June 2004

Objectives :

1. To provide an overview of scientific approaches to Psychological Research in terms of sampling techniques, scientific method / experimental designs.
2. To acquaint the students with respect to Psycho-physics Reaction Time and Association.

Chapter 1 - Experimentation in Psychology

- 1.1 Research - Theoretical and Empirical
- 1.2 Experimental Method - Definition
 - 1.2A Concept of variable - classification of variables - DV and IV
Qualitative and Quantitative, Parameter, Intervening Variable,
Relevant Variables
 - 1.2B Steps in Experiment
 - a) Rising a problem
 - b) Formulation of a hypothesis
 - c) To distinguish DV and IV variables
 - d) Controlling the environment or situation
 - e) Analysis of the results
 - f) Verification of the hypothesis by the results of the experiments
 - 1.2C Limits of experimental method
 - a) Artificial situations of laboratory
 - b) Difficulty in the control of attitude of the subject
 - c) Difficulties of securing the co-operation of the subject
 - d) Limited field

Chapter 2 - Sample Investigation

- 2.1 Meaning of sampling
- 2.2 Characteristics of sampling technique
 - a) Economical
 - b) Reliability
 - c) Detailed Study
 - d) Scientific base
 - e) More suitable
- 2.3 Limitations of Sampling Technique
 - a) Less accuracy
 - b) Changibility of unit
 - c) Misleading of conclusion
 - d) Need for specialized knowledge
 - e) When sampling is not possible

- 2.4 Method of sampling
 - a) Random Sampling
 - b) Purposive sampling
 - c) Stratific sampling
 - d) Quota sampling
 - e) Multistage sampling
 - f) Extensive sampling
 - g) Convenient Sampling

Chapter 3 - Introduction to Experimental Design

- 3.1 What is experimental design ?
- 3.2 Experimental design as variance control.
 - a) Systematic variance
 - b) Extraneous variance
 - c) Error variance
- 3.3 Types of experimental design
 - a) Single case experimental design
 - b) Quasi-experimental design
 - c) Experimental design
- 3.4 Basic terminology in experimental design
- 3.5 Basic terminology of statistical analysis
 - a) Null hypothesis
 - b) Level of significance

Chapter 4 - Learning and Memory

- 4.1 Learning - definitions
- 4.2 Types of learning
 - a) Verbal learning
 - b) Motor learning
 - c) Problem solving
- 4.3 Experimental materials and procedures
 - 4.3A Experimental materials - nonsense syllables, meaningful words, structured sequence
 - 4.3B Procedures - free recall, serial learning and recall, paired associate learning procedure, verbal discrimination learning,
- 4.4 Main phenomenon -
 - a) Serial position curve
 - b) Clustering and organization
 - c) Coding
- 4.5 Transfer of learning - Meaning
 - a) Experimental procedure
 - b) Measures of transfer
 - c) Types of transfer

4.6 Memory

- 4.6A Memory as a psycho-physiological activity - learning, retention recall, recognition
 - 4.6B Favourable conditions in retention
 - a) Nature of material
 - b) Duration
 - c) Amount of material
 - d) Amount of learning
 - e) Methods of learning
 - f) Speed of learning
 - g) Attention
 - h) Mental review
 - 4.6C Favourable conditions in recall
 - a) Suitable mental and physical conditions
 - b) Perfection of clues
 - c) Mental set
 - d) Context
 - e) Motives
 - f) Efforts
 - 4.6D Favourable conditions in recognition
 - a) Mental set
 - b) Confidence
 - 4.6E How to memorise
 - a) Recitation
 - b) Spaced and unspaced methods
 - c) Part and whole method
 - d) Active and Passive method
 - e) Rote and intelligent method
 - f) Grouping and rhymes
 - g) Association
- 4.7 Forgetting - Disuse, Inhibition, Repression

Chapter 5- Conditioning

- 5.1 Conditioning - Meaning
- 5.2 Classical conditioning - meaning
 - 5.2A Classical conditioning - Meaning, A Procedural variations - Simultaneous conditioning, Delayed conditioning, Trace Conditioning, Backward conditioning
- 5.3 Instrumental Conditioning
- 5.3A Classification of Instrumental conditioning, Reward Instrumental Conditioning, Omission Instrumental Conditioning, Punishment Instrumental Conditioning
- 5.4 Characteristics of Conditioning
 - 5.4A Extinction
 - 5.4B Spontaneous recovery
 - 5.4C Inhibition
 - 5.4D Generalisation
 - 5.4E Discrimination

Chapter 6 - Psycho-physics

- 6.1 Meaning of Psycho-physics
- 6.2 Method of Limit
- 6.3 Method of constant stimuli
- 6.4 Methods of average error
- 6.5 Errors in Psycho-physical method

Chapter 7 - Reaction Time and Association

- 7.1 Meaning of reaction time
- 7.2 Kinds of reaction time
- 7.3 Factors affecting on reaction time
- 7.4 Association - Meaning
- 7.4A Kinds of association
- 7.4B Experiments on association
- 7.4C Determinants of associative reaction time
- 7.5 Free Association
- 7.6 Constrained Association (Delete experiments)

Chapter 8 - Attention and Perception

- 8.1 Nature and characteristics of attention
- 8.2 Perception - Definition and nature
- 8.3 Figures perception - figure and ground
- 8.3A Figure and ground - Determinants of figure and ground, figural persistence
- 8.4B Laws of perceptual organization
- 8.4 Perceptual Illusions - Theories of illusion
- 8.5 Distance or Depth Perception
- 8.5A Determinants of Depth Perception
 - i - Monocular cues
 - ii - Binocular cues
- 8.6 Perceptual Constancies
- 8.6A Lightness constancies
- 8.6B Size constancies

REFERENCE BOOKS

- 1 Lalbachan Tripathi and others - Adhunik Prayogik Manovigyan - H. P. Bhargav Book House, Agra, 1999
- 2 Kusum Damale - Prayogik Manas-shastra, 1981
- 3 Ram Nath Sharma, Rachna Sharma - Experimental Psychology - Atlantic Publishers, New Delhi, 2003
- 4 Prof. Ramesh Potdar - Prayogik Manas-Shastra, Anshul Publications, Nagpur, 1999
- 5 Dr. govind Tiwari, Dr. Roma Pal, Experimental Psychology- Dynamic Approach Vinod Pustak Mandir, Agra-2
- 6 K. D. Broota - Experimental Design in Behavioural Research, Wiley Eastern Limited, New Delhi and Pune.

NORTH MAHARASHTRA UNIVERSITY, JALGAON
SYLLABUS FOR T.Y.B.A.
SUBJECT : PSYCHOLOGY
TITLE : BEHAVIOUR MODIFICATION (OPTIONAL)
EXPERIMENTAL PSYCHOLOGY (THEORY)
SPECIAL PAPER - III
With Effect From June 2004

Chapter 1 - Introduction - Behaviour Modification

- 1.1 What is Behaviour ? Behaviour Modification, Behavioural Assessment, Misconceptions about Behaviour Modification
- 1.2 Areas of application : Parenting and child management, Education from preschool to university, severe problems (Developmental disabilities, child hood autism and schizophrenic), Clinical behaviour therapy, Self management of personal problems , medical and health care, sports psychology

Chapter 2 - Basic Behavioural Principles and Procedure (Getting behaviour to occur more often)

- 2.1 Positive Reinforcement - Factors influencing the effectiveness of positive reinforcement, pitfalls of positive reinforcement, guidelines for the effective application of positive reinforcement
- 2.2 Conditioned Reinforcement - (To develop and maintaining behaviour) - Unconditioned and conditioned reinforcers, Factors influencing the effectiveness of conditional reinforcement, pitfalls of conditioned reinforcement, guidelines for the effective use of conditioned reinforcement
- 2.3 Intermittent Reinforcement - (Developing Behavioural Resistance) - Some definitions, Ratio schedules, Simple Interval Schedules, Interval Schedules with limited hold, Duration Schedules, Concurrent Schedules of reinforcement, Pitfalls of intermittent reinforcement, Guidelines for the effective use of intermittent reinforcement

Chapter 3 - Stimulus discrimination and stimulus generalization

- 3.1 Stimulus discrimination learning and stimulus control, Types of controlling stimuli S^Ds and S^As stimulus generalization, factors determining the effectiveness of stimulus discrimination training pitfalls of stimulus discrimination training

Chapter 4 - Extinction - Decrease a behaviour with extinction

- 4.1 Extinction. Factors influencing the effectiveness of extinction, Pitfalls of Extinction, Pitfalls of extinction, Guidelines for the effective application of extinction
- 4.2 Types of intermittent reinforcement
Differential reinforcement of low rates, Differential reinforcement of zero responding, Differential reinforcement of incompatible responding, Pitfalls of schedules of decreasing behaviour, Guidelines for the effective use of intermittent schedules to decrease behaviour

Chapter 5 - Fading, Shaping and Behavioural Chaining

- 5.1 Fading - (Developing appropriate behaviour), Factors influencing the effectiveness of fading, Pitfalls of fading, Guidelines of the effective application of fading
- 5.2 Shaping - (Getting a new behaviour to occur) Factors influencing the effectiveness of shaping, pitfalls of shaping, guidelines for the effective application of shaping
- 5.3 Behavioural Chaining (Getting new sequence of behaviours) - Stimulus - Response chaining, methods of teaching a behaviour chain, chaining compared with fading and shaping, Factors influencing with fading and chaining, Pitfalls of chaining, Guidelines for the effective use of chaining

Chapter 6 - Punishment, Escape and Avoidance conditioning

- 6.1 Punishment (Eliminating in appropriate behaviour) The principles of Punishment, Types of punishers, Factors influencing the effectiveness of punishment, should punishment be used? Pitfalls of Punishment, Guidelines for the effective application of Punishment Procedures
- 6.2 Escape and Avoidance conditioning (Establishing a desirable behaviour) Escape conditioning, Avoidance Conditioning, Pitfalls of escape and avoidance, Guidelines for the effective application of escape and avoidance
- 6.3 Respondent conditioning - Operant versus Respondent Behaviour, Principle of respondent conditioning, Higher order Conditioning, Respondent Extinction, Counter conditioning, Common respondently conditioned responses, Respondent and operant conditioning compared, Applications of respondent conditioning principles, Operant - Respondent interactions, Respondent and Operant Components of thinking, Private thoughts and feelings, More Respondent Operant Interactions

Chapter 7 - Generality of Behaviour Change (Transferring behaviour to new setting and making it last)

Generality, Factors influencing the effectiveness of Programming generality of operant behaviour, Programming Generality of Respondent behaviour, Pitfalls of generality, Guidelines for Programming generality of operant behaviour, Rules, Goals, Modeling, Physical guidance, situational inducement

Chapter 8 - Behavioural Assessment

- Sources of information for baseline assessment,
- Continuous recording, Interval recording and time sampling recording, Assessing the accuracy of observations
- 8.1 Functional assessment of the causes of problem behaviour : Approaches to functional assessment, Major causes of problem behaviour, Medical causes of problem behaviour, Guidelines for conducting a functional assessment

Chapter 9 - Planning, Applying and Evaluating a treatment program

- 9.1 Selecting and implementing an assessment procedure, Strategies of program design and implementation, program maintenance and evaluation
- 9.2 Helping an individual to develop self-control : causes of self control problem, A model of self control, Steps in self control program, Circuitventing the therapist
- 9.3 Systematic self-desensitization - Systematic self-desensitization, When to seek professional assistance,
- 9.4 Cognitive Behaviour Modification :- Some cognitive behavioural procedures, Evaluation of cognitive techniques, A Behavioural interpretation of cognitive behaviour techniques
- 9.5 Areas of clinical behaviour therapy - Obsessive - Compulsive disorders, Failure to cope with stress, Alcohol problems, Obesity, Marital distress, Sexual dysfunction, Habit disorders
- 9.6 Ethical Issues - Arguments against deliberately controlling behaviour, Ethical guidelines

TEXT BOOK

1. Martin Garry; Pear Joseph (2002) : Behaviour Modification " What it is and How to Do" 7th Edition, Prentice-Hall of India Private Limited, New Delhi 110001 (Indian Reprint)

NORTH MAHARASHTRA UNIVERSITY, JALGAON

SYLLABUS FOR T.Y.B.A.

TITLE : APPLIED PSYCHOLOGY

GENERAL PSYCHOLOGY - G3 - (THEORY)

With Effect From June 2004



Chapter 1 - Nature of Applied Psychology

- 1.1 Introduction and definition of Applied Psychology
- 1.2 Difference between theoretical and Applied Psychology
- 1.3 Fields of Applied Psychology - Counseling, Environmental crime, Law, Family, Community, Rural, Health Sports and Military
- 1.4 Basic and Applied Research
- 1.5 Applied Psychologist Service Functions

Chapter 2 - Job Analysis and Workers Selection

- 2.1 Introduction and Definition of Job
- 2.2 Work Analysis Method
 - a) Movement related analysis
 - b) Function and Functional skills
- 2.3 Workers Selection
 - a) Application
 - b) InterviewTypes of interview - Primary, Job and Probing Questions, Background information interview, Discussion interview, Stress Interview

Chapter 3 - Psychological Tests

- 3.1 Introduction and Definition of Test
- 3.2 Characteristics of Good Test
- 3.3 Types of Psychological Test
- 3.4 Types of Mechanical Ability Test
 - a) Bennett Mechanical Comprehension Test
 - b) Minnesota Special Relation Test
 - c) Minnesota Paper form Board Test
 - d) Purdue Industrial Training Classification Test
 - e) Purdue Mechanical Adaptability Test
- 3.5 Job Specific Abilities
 - a) Work Sample Test
 - b) Written Achievement Test
 - c) Oral Achievement Test

Chapter 4 - Training and Development

- 4.1 Introduction and Definition of Training
- 4.2 Training needs and types of training
 - a) Orientation on the job
 - b) Off the job
 - c) Outside Training
- 4.3 Methods of Training
- 4.4 Evaluation of Training

Chapter 5 - Human Performance

- 5.1 Introduction and Definition of Performance
- 5.2 Work and Fatigue
- 5.3 Work schedules
- 5.4 Industrial Safety
 - a) Types of Accident
 - b) Causes of Accident
- 5.5 Accident Prevention

Chapter 6 - Work Motivation

- 6.1 Nature and Definition of Work, Motivation
- 6.2 Importance of Industrial Motivation
- 6.3 Theories of Work Motivation
 - a) Hierarchy of Needs
 - b) Herzberg's two factor theory of job satisfaction
 - c) Victor's Expectancy Theory
- 6.4 Interpersonal relation and Johri Window

Chapter 7 - Consumer Behaviour and Advertisement

- 7.1 Nature and Definition of Consumer Behaviour
- 7.2 Psychological Principles of Consumer Behaviour
- 7.3 Techniques of Consumers Studies
- 7.4 Meaning and Characteristics of Advertisement
- 7.5 Goal of Advertisement
- 7.6 Factors of Advertisement Effectiveness

Chapter 8 - Environmental Psychology

- 8.1 Introduction and Definition of Environments
- 8.2 Adverse Experimental Conditions
- 8.3 Effect of Space on behaviour
- 8.4 Application of Environmental Psychology

Chapter 9 - Psychology and Information Technology

- 9.1 Information Processing System
- 9.2 Categorisation of I.T. (Information Technology) and Human Activity
- 9.3 Designing IT from the inside
- 9.4 Designing IT from the outside
- 9.5 Application of I.T.

BOOKS

1. Anne Anastasi - Psychological Testing, 2nd Ed., McGraw Hill Publication, Delhi
2. Goldstain A. P. and Krasner L. - Modern Applied Psychology, New York, Pargamon Press (1989)
3. Barlinge M., and Latkar Kamini , Upyojit Manasshastra, Shri Sainath Prakashan, Nagpur, First Edition, 2000
4. Pandit , Kulkarni, Gore - Upyojit Manasshastra, Pimpalpure and Co. Publishers, Nagpur-2000
5. Palsane M. N. , Navre Savita , Upyojit Manasshastra , Waiji Easter Limited Pub., Mumbai-1993
6. Patri Vasantha R. - Counseling Psychology, Authors Press, Indian Institute of Counseling, New Delhi, 2001
7. Tadsare, Tambake - Upyojit Manasshastra, Fadke Prakashan, Kolhapur, 1998

NORTH MAHARASHTRA UNIVERSITY, JALGAON
SYLLABUS FOR T.Y.B.A.
TITLE : ORGANISATIONAL BEHAVIOUR (OPTIONAL)
GENERAL PSYCHOLOGY - G3 - (THEORY)
With Effect From June 2004

Chapter 1 - Introduction to Organisational Behaviour

- 1.1 Definition and Scope of Organisational Behaviour
- 1.2 Disciplines
- 1.3 Contribution to Organisational Behaviour
- 1.4 Approaches to Organisational Behaviour
- 1.5 Models of Organisational Behaviour
- 1.6 Challenges for Organisational Behaviour
- 1.7 Organisation and the Indian Scenario

Chapter 2 - Understanding of Individual Behaviour

- 2.1 Necessity to understand individual Human Behaviour
- 2.2 S-R Model of Human Behaviour
- 2.3 Rule of Biographical Profile in Understanding Individual Behaviour
- 2.4 Role of Physical and Intellectual Abilities in identifying suitable ability job

Chapter 3 - Values, Attitude and Job Satisfaction

- 3.1 Meaning
- 3.2 Importance and Relevance of values to Organisational Behaviour
- 3.3 Types of values
- 3.4 Attitude, Types, Components and Functions of Attitudes
- 3.5 Link between Attitude and Organisational Behaviour
- 3.6 Concept of Job Satisfaction, Factors affecting on job satisfaction
- 3.7 Ways of measuring job satisfaction

Chapter 4 - Personality

- 4.1 Meaning and Definition of personality
- 4.2 Theories of Personality, Key Determinants of Personality
- 4.3 Emotional Intelligence and its impact on personality

Chapter 5 - Motivation

- 5.1 Meaning and definition of motivation
- 5.2 Types of motivation
- 5.3 Content and Process theories of motivation
- 5.4 Non financial and financial motivational programmes

Chapter 6 - Career Management

- 6.1 Meaning and Definition of Career Management
- 6.2 Phases in Career Development
- 6.3 Implement Strategies in Career Planning and Succession Planning
- 6.4 Career Plans for Women

Chapter 7 - Stress Management

- 7.1 Meaning of Stress Factors causing stress
- 7.2 Effects of Stress
- 7.3 Management of Stress

Chapter 8 - Communication

- 8.1 Definition and Importance of Communication
- 8.2 Communication Models
- 8.3 Communication and Organisations
- 8.4 Types of Communication Processes
- 8.5 Barriers to Effective Communication
- 8.6 Essentials for Effective Communication

Chapter 9 - Conflict Resolution

- 9.1 Meaning and Definition of Conflict
- 9.2 Functional and Dysfunctional Conflicts
- 9.3 Levels of Conflict
- 9.4 Intra-personal Conflict
- 9.5 Inter-personal Conflict
- 9.6 Intra-Group Conflict
- 9.7 Inter-Group Conflict

Chapter 10 - International Organisational Behaviour and Knowledge Management

- 10.1 Cues for Managing in a Rapidly Changing World
- 10.2 Managing differences at various levels globally
- 10.3 Knowledge Management in Organisations

TEXT BOOKS

1. Nair Suja R. - Organisational Behaviour , Himalaya Publishing House , Mumbai, First Edition, 2004

REFERENCE BOOK

1. Luthan Fred, Organisational Behaviour, McGraw Hill International Edition, Mumbai, Seventh Edition, 1976
2. Robbins St. P , Organisational Behaviour , Prentice Hall of India, New Delhi, Sixth Edition, 1995

NORTH MAHARASHTRA UNIVERSITY, JALGAON
SYLLABUS FOR T.Y.B.A.
TITLE : EXPERIMENTAL PSYCHOLOGY (PRACTICALS)
SPECIAL PAPER - IV
With Effect From June 2004

Student should conduct atleast 10 experiments from the following areas (Any two from each area of the following)

A. Learning and Memory

- Maze Learning
- Serial Learning
- Amount of Material and Learning
- Conditioning Hand Withdrawal
- Verbal Conditioning
- Recall and Recognition
- Bi-lateral Transfer

B. Attention and Perception

- Depth Perception
- Colour Preference
- Retinal Colour Zones
- Size / Shapes Perception
- Phi-Phenomenon
- Measurement of Illusion

C. Psychophysics

- Method of Limit
- Method of Constant Stimuli
- Method of Average Error (Use Galton Bar)

Reaction Time and Dexterity

- Reaction Time-Simple and Disjunctive
- Manual Dexterity / Finger Dexterity Test
- Problem Solving
- Habit Interference
- Multiple Choice Problem
- Psychological Testing (any three)
- Study Tour

Note - Practical Examination in Psychology will be held annually. A batch of maximum 10 students will be constitute one batch. Duration of the practical will be of three hours in which candidate will perform conduct and write a report of an experiment allotted to him/ her with statistical problem and viva. Every batch will conduct the experiment twice in a week

PRACTICUM - Students should prepare a report on any subjects (Education, Clinical, Industrial, Social etc) with following guidelines under the guidance of teacher viz. Problem, Hypothesis, Objectives, Importance of topic, Tools, Methodology, Results, Conclusion, References

The division of marks of Practical and Practicum examination is as follows :

| | |
|--------------------------|----------|
| Journal | - 20 |
| Statistics | - 20 |
| Instruction and conduct | - 10 |
| Practical Report Writing | - 10 |
| Practicum Report | - 20 and |
| Viva | - 20 |
| | <hr/> |
| Total | 100 |

STATISTICS : Frequency Distribution, Computation of Mean, Median, Mode, S.D. (Standard Deviation), 'T' Test be taught and simple statistical problem be set for examination, Coefficient of Correlation by Rank Difference Method, Statistical Problems may be set for the practical examination

Note :

1. 'T' test is to be used only for practicum
Problem on 'T' test will be not set in practical examination
2. Student should submit a brief and separate report on practicum

REFERENCE BOOK

1. Pestonji D. M. - Handbook of Psychological Instrument and Measurement
2. Garret -
3. Upasani - Sankhya Shastra
4. Virkar, Gade, Samant -
5. S. V. Deshpande - Prayogik Manasshastra
6. Kerlinger - Research Methodology
7. An Anasthesi - Psychological Testing

तृतीय वर्ष कला मानसशास्त्र

समकक्ष अभ्यासक्रम

| sr. No | Old | New |
|--------|---|--|
| 01 | Experimental Psy (Theory) S-III ----- | Experimental Psy (Theory) S-III OR Behaviour Modification S-III |
| 02 | Experimental Psy - Practical S-IV | Experimental Psy - Practical S-IV |
| 03 | Applied Psy - G-III OR Organisational Behaviour G-III | Applied Psy - G-III OR Organisational Behaviour (Optional) G-III |
