

SOLAPUR UNIVERSITY, SOLAPUR.

SEMESTER PATTERN SYLLABUS M.A.I

PSYCHOLOGY COURSE

GROUP F, PAPER - I

COGNITIVE PSYCHOLOGY

(W. E. F. JUNE 2010)

Group F – Paper I Semester-I + Semester II = Total

Cognitive Psychology 50 + 50 = 100 Marks

Group F – Paper II Semester-I + Semester II = Total

Personality 50 + 50 = 100

Group F – Paper III Semester-I + Semester II = Total

**Research Methodology
and Statistics** 50 + 50 = 100

Group F – Paper IV Semester-I + Semester II = Total

**Practical – Experiments
and Psychological Tests** 50 + 50 = 100

Note :- All papers are compulsory

SOLAPUR UNIVERSITY, SOLAPUR.

SEMESTER PATTERN SYLLABUS M.A.I

PSYCHOLOGY COURSE

GROUP F, PAPER - I

COGNITIVE PSYCHOLOGY

(W. E. F. JUNE 2010)

SEMESTER - I

- **TOPIC NO. 1**

INTRODUCTION OF COGNITIVE PSYCHOLOGY :

- 1.1 What is Cognitive Psychology ?
- 1.2 Domain of Cognitive Psychology.
- 1.3 A Brief history of Cognitive Psychology.
- 1.4 Conceptual Science and Cognitive Psychology.

- **TOPIC NO. 2**

COGNITIVE NEUROSCIENCE

- 2.1 Exploring and Mapping the Brain.
- 2.2 Mind – Body Issue.
- 2.3 Cognitive Neuroscience.
- 2.4 The Nervous System
- 2.5 Neurophysiological Sensing Techniques
- 2.6 The Tale of two hemispheres.

- **TOPIC NO. 3**

PERCEPTION AND ATTENTION

- 3.1 Sensation and Perception
- 3.2 Perceptual Span
- 3.3 Iconic Storage, Echoic Storage & functions of Sensory Storage.
- 3.4 Nature of Attention.
- 3.5 Models of Selective Attention.
- 3.6 The Neurocognition of attention.

- **TOPIC NO. 4**

MEMORY : STRUCTURE AND PROCESSES

- 4.1 Short Term Memory.
 - a) Neurocognition and Memory.
 - b) Working Memory.
 - c) Capacity of STM.
 - d) The Coding of information in STM.
 - e) Retrieval of information from STM.
- 4.2 Long Term Memory.
 - a) Neurocognition and LTM.
 - b) LTM: Storage and Structure
 - c) Very Long Term Memory.

- **TOPIC NO.5**

THEORIES AND NEUROCOGNITION OF MEMORY

- 5.1 Early Studies.
- 5.2 Models of Memory.
- 5.3 Narrative and Autobiographical Memory:- Schemata , Autobiographical, eyewitness, Recovered versus false memory.
- 5.4 Mnemonics of Memory.

SEMESTER - II

- **TOPIC NO. 6**

THE REPRESENTATION OF KNOWLEDGE AND MENTAL IMAGERY

- 6.1 The Associationist Approach.
- 6.2 Semantic Memory :- Cognitive Models
- 6.3 Representation of knowledge : Neurocognitive Considerations
- 6.4 Historical Overviews of mental Imagery.
- 6.5 Imagery and Cognitive psychology.
- 6.6 Neurocognitive evidence.

- **TOPIC NO. 7**

COGNITIVE DEVELOPMENT

- 7.1 Theories of Cognitive development
- 7.2 Life span development
- 7.3 Neurocognitive development
- 7.4 Cognitive development
- 7.5 Gender differences in Cognition.

- **TOPIC NO. 8**

PROBLEM SOLVING AND CREATIVITY

- 8.1 Problem Solving Cycle.
- 8.2 Well structured versus ill structured problem.
- 8.3 Hindrances to problem solving .
- 8.4 Aids to problem solving.
- 8.5 Creativity approaches.

- **TOPIC NO. 9**

- DECISION – MAKING AND REASONING**

- 9.1 Judgment and decision making.
- 9.2 Deductive Reasoning.
- 9.3 Inductive Reasoning.
- 9.4 Alternative views of reasoning.

- **TOPIC NO. 10**

- HUMAN AND ARTIFICIAL INTELLIGENCE**

- 10.1 Problem of definition.
- 10.2 Cognitive theories of intelligence.
- 10.3 Neurocognition and Intelligence.
- 10.4 Machine & Mind :- The imitation game & Chinese Room.
- 10.5 Perception & A I.
- 10.6 Problem solving & A I.
- 10.7 A I. And Scientific inquiry.

- **BOOKS FOR READING:**

- 1) Solso R.L. (2004) - Cognitive Psychology,
6th Edition, Boston: Allyn & Becon Pub.
- 2) Sternberg R.J. (1996) - Cognitive Psychology
New York, Harcourt Brace College Pub.
- 3) Galotti M. (2000) - Cognitive Psychology : In & out of Laboratory.
Belmont Brooks-cole & Wadsworth

● **BOOKS FOR REFERENCE:**

- 1) Mattin M.W. (1994) – Cognition 3rd Edition
New Delhi, Prism Indian Pub.
- 2) Best J.B. (1999) – Cognitive Psychology (5th Edition)
New York, ITP Pub. Comp.
- 3) Haber andt K. (1997) – Cognitive Psychology (2nd Edition)
Allyn Becon Pub. Comp.
- 4) Read S.K. (1998) – Cognition- Theory and Application
California – Brooks /cole Pub. Comp.
- 5) Kaplan S. & Kaplan R. (1982)- Cognition and Environment
New York, Praeger – publishers
- 6) Cohen G. (1983) – Psychology of Cognition (2nd Edition)
London Academic press.

SOLAPUR UNIVERSITY, SOLAPUR.

SEMESTER PATTERN SYLLABUS M.A.I

PSYCHOLOGY COURSE

GROUP F, PAPER - II

PERSONALITY

(W. E. F. JUNE 2010)

SEMESTER - I

- **TOPIC NO. 1**

AN INTRODUCTION

- 1.1 What is Personality Psychology ?
 - a) Defining Personality.
 - b) Theory in Personality Psychology.
 - c) Theory in broader Perspective.
- 1.2 Methods in the study of Personality.
 - a) Gathering Information.
 - b) Establishing relationship among variables.
- 1.3 Issues in Personality assessment.
 - a) Sources of information.
 - b) Reliability of measurement.
 - c) Validity of measurement .
 - d) The better assessment : A Never ending search.

- **TOPIC NO. 2**

THE DISPOSITIONAL PERSPECTIVE

- 2.1 Types, Traits and Interactionism.
 - a) Types and Traits
 - b) What traits matter?
- 2.2 Traits situations and the interactionist approach.
 - a) Assessment
 - b) Problem in behaviour in behaviour change.

- 2.3 Needs and Motives
- a) Basic theoretical elements
 - b) Needs, Motivations and personality.
 - c) Individual differences in specific needs.

● **TOPIC NO. 3**

THE BIOLOGICAL PERSPECTIVE

- 3.1 Inheritance, Evolution and personality.
- a) Physique and personality.
 - b) Determining the role of inheritance in personality.
 - c) What personality dispositions are inherited ?
 - d) Evolution and human behaviour.
- 3.2 Biological Processes and personality.
- a) Extroversion, Neuroticism and brain functions.
 - b) A different view of brain functions.
 - c) Sensation seeking.
 - d) Hormones and personality.
 - e) Assessment.

● **TOPIC NO. 4**

THE PSYCHOANALYTIC PERSPECTIVE

- 4.1 Psychoanalytic structure and process.
- a) The topographical model of mind.
 - b) Components of personality: Structural Model
 - c) Motivation : The drives of personality.
 - d) Psychosexual development.
- 4.2 Anxiety, Defence and self-protection
- a) Anxiety
 - b) Mechanism's of defence.
 - c) Psychopathology of everyday life.
 - d) The projective techniques of assessment.

SEMESTER - II

- **TOPIC NO.5**

THE NEO-ANALYTIC PERSPECTIVE

- 5.1 Ego Psychology.
 - a) Principles of ego psychology.
 - b) Ego development.
 - c) Assessment.
- 5.2 Psychosocial Theories.
 - a) Object – relations theories
 - b) Attachment theory and personality
 - c) Erikson’s theory of psychosocial development.

- **TOPIC NO. 6**

THE LEARNING PERSPECTIVE

- 6.1 Conditioning theories.
 - a) Classical Conditioning.
 - b) Instrumental conditioning.
 - c) Assessment.
- 6.2 Social Cognitive learning theories.
 - a) Elaborations on conditioning processes.
 - b) Observational Learning.
 - c) Manifestations of cognitive and social learning.
 - d) Assessment.

- **TOPIC NO. 7**

THE PHENOMENOLOGICAL PERSPECTIVE

- 7.1 Self -Actualization and Self – Evaluation
 - a) Self- Actualization.
 - b) The self and processes of self.
 - c) Self –Actualization and Maslow’s hierarchy of motives.
 - d) Existential psychology
 - e) Assessment.
- 7.2 Personal Constructs.
 - a) Personal constructs and personality.
 - b) Assessment.
 - c) Problems in behaviour and behaviour change.

- **TOPIC NO. 8**

THE COGNITIVE SELF-REGULATION PERSPECTIVE

- 8.1 Contemporary cognitive views
 - a) Representing your experience of the world.
 - b) Border statements on cognition and personality.
 - c) Assessment.
 - d) Problems in behaviour and behaviour change.
- 8.2 Self-Regulation
 - a) From cognition to behaviour.
 - b) Self-Regulation and feedback control
 - c) Assessment.
 - d) Problems in behaviour and behaviour change.

BOOK FOR READING:

- 1) Carver C.S. and Scheier M.F. (1996) – Perspectives on Personality
3rd Edition, Allyn & Becon

● **BOOKS FOR REFERENCE:**

- 1) Allen B.P. (1997) – Personality Theories
Allyn and Becon Pub.
- 2) Bischof L. J. (1970) – Interpreting Personality Theories
New York, Harper and Roc.
- 3) Hall C.S. and Lindzey G. (1985) – Theories of Personality, (3rd Edition)
New York: Wiley Estern Ltd.
- 4) Hjelle L.A. and Zeigler D.J. (1991) – Personality Theories : Basic Assumptions
Research and Applications 2nd Edition.
- 5) Pervin L.A. (1984) – Personality : Theory and Research , 4th Edition
New York, John wieley and sons, Inc.
- 6) Feist J. (1985) – Theories of Personality
Holt-Squnders international Edition , New York.
- 7) Sahakian W.S. (1965) – Psychology Of Personality - Reading in Theory
Chicago: Rand-Mc-Nally college pub. Co.
- 8) Liebert R.M. and Spiegler M.D. – Personality: Strategies and Issues, Pacific
Grove , Callifornia. Books, Cole pub. Co.
- 9) Mangnusson D and Endler N.S. (1977) – Personality at Crossroads
New Jersey, Hillsdale : Lawrence
Eribaum Associates.

SOLAPUR UNIVERSITY, SOLAPUR.

**SEMESTER PATTERN SYLLABUS M.A.I
PSYCHOLOGY COURSE
GROUP F, PAPER - III
RESEARCH METHODOLOGY AND STATISTICS
(W. E. F. JUNE 2010)**

SEMESTER - I

- **TOPIC NO. 1**

RESEARCH PROCESS

- 1.1 Scientific research.
- 1.2 Problems:- Selection of problem, definition of problem.
- 1.3 Hypotheses :- Definition, types, Characteristics
- 1.4 Basic Concepts concerning testing of hypotheses.
- 1.5 Procedure for hypotheses testing.

- **TOPIC NO. 2**

TYPES OF INVESTIGATION

- 2.1 Controlled laboratory experiments.
- 2.2 Field experiments.
- 2.3 Ex-post facto field studies.
- 2.4 Ex-post facto laboratory studies.

- **TOPIC NO. 3**

SAMPLING

- 3.1 Basic principles of sampling.
- 3.2 Types of probability sampling methods.
- 3.3 Types of non-probability sampling methods.
- 3.4 Adequacy of sample size.
- 3.5 Characteristics of good sample.
- 3.6 Data Collection methods :- Interview, Questionnaire and Observation.

- **TOPIC NO.4**
EXPERIMENTAL DESIGN
 - 4.1 Controlling Secondary Variance.
 - 4.2 Single group designs (Pre-test; post-test design, Two group designs, C Matched two group design, Randomized two group design, Pre & Post test controlled group design, two group design covariance etc.)
 - 4.3 Multi group design with single independent variables (Randomized group design, Block design , Multigroup design; with covariate)
 - 4.4 Factorial design (Simple factorial design, block factorial design, factorial design with covariate)
 - 4.5 Introductory concepts on quasi experimental design.
- **TOPIC NO. 5**
MULTIVARIATE ANALYSIS
 - 5.1 Factor Analysis :- Basic Concepts.
 - 5.2 Overviews of factor extraction and rotation methods.
 - 5.3 Other multivariate methods.
 - 5.4 Precautions in computer applications.
- **TOPIC NO. 6**
RESEARCH PROPOSALS AND RESEARCH REPORTS

SEMESTER - II

- **TOPIC NO. 7**

PROBABILITY

- 7.1 Elementary principles of probability.
- 7.2 Normal Distribution curve.
- 7.3 Areas under normal distribution curve.
- 7.4 Application of normal distribution curve.

- **TOPIC NO. 8**

CORRELATION

- 8.1 Meaning of Correlation.
- 8.2 Product-Moment Correlation.
- 8.3 Scattered diagram.
- 8.4 Biserial Correlation, The phi Coefficient.
- 8.5 Partial and Multiple Correlation.
- 8.6 Simple Linear regression.

- **TOPIC NO. 9**

STATISTICAL INFERENCE

- 9.1 Testing difference between means.
- 9.2 Independent Sample 't' and paired Sample 't'.
- 9.3 Difference between Percentage & Correlation Coefficient.

- **TOPIC NO. 10**

ANALYSIS OF VARIANCE

- 10.1 Analysis in a One-way classification problem (ANOVA)
- 10.2 Analysis in a Two-way classification problem (ANOVA)
- 10.3 One-way classification of analysis of various of ranks. (' f ' test)

- **TOPIC NO.11**

- NON-PARAMETRIC OF DISTRIBUTION FREE STATISTICS**

- 11.1 Chi Square :- General features.
- 11.2 Chi Square in contingency table.
- 11.3 Some special applications of Chi Square.
- 11.4 Median Test, Sign tests, Krsukla-Wallasis test, Mann Whitney U test.

- **BOOKS FOR READING:**

- 1) Guilford and Fruchter - Fundamental Statistics in Psychology and Education, (1985) McGraw Hill pub.
- 2) Robinson P.W. (1976) – Fundamentals of Experimental Psychology, Prentice Hall.
- 3) Kerlinger F. N. (1988) – Foundations of behavioural research, Rinehart and Winston.

- **BOOKS FOR REFERENCE:**

- 1) Miniumv E.W (1978) – Statistical Reasoning in Psychology & Education – Wiley.
- 2) Ferguson G.A. (1976) – Statistical Analysis in Psychology & Education
- 3) Broota – Experimental design in Psychological Research.
- 4) Kothari C.R. – Research Methodology Methods & techniques (2nd Edition)

GROUP – F- PAPER - IV
PRACTICALS AND TESTING
SEMESTER-I (ANY TEN)

- 1) Illusion
- 2) Concept Formation
- 3) Verbal Conditioning
- 4) Division of Attention
- 5) Signal Detection
- 6) Immediate memory span
- 7) Types of Imagery
- 8) Distraction of Attention
- 9) Isolation Effect
- 10) Logical learning
- 11) Goal setting behaviour
- 12) Problem solving (Wiggly Blocks-Heart-Bow)
- 13) Short term memory
- 14) Zeigarnick effect.
- 15) The Towers of Hanoi Problem.

GROUP – F- PAPER - IV
PRACTICALS AND TESTING
SEMESTER– II (ANY TEN)

- 1) Differential aptitude test
- 2) E.P.Q. – R.
- 3) 16 P.F.
- 4) Raven’s progressive Matrices
- 5) Indian adaptation of Weschler Intelligence scale
- 6) Vocational Interest test
- 7) Cognitive style
- 8) Self concept scale
- 9) Risk taking quest (Decision Making)
- 10) Temperament scale
- 11) The scale of Tension
- 12) Passi test of creativity
- 13) Time perception test
- 14) Social maturity scale
- 15) T.A.T. (Indian Adaptation)

- NOTE:-** 1) Ten Experiments should be conducted from the list given in semester– I.
2) Ten tests should be administered from the list given in semester-II.
3) Student has to submit a journal duly signed by course teacher & head of the department for appealing each semester practical examination.

PRACTICAL EXAM

- 1) The final practical examination of semester I and semester II held at the end of the academic year. 50 Marks practical exam will be conduct for each semester .
- 2) Each semester Practical exam shall consist one practical of three hours duration.
- 3) The practical examination the candidate has to conduct one experiment allowed to him/her for Semester I. He/She has to administed one test allowed to him/her for Semester II.

DISTRIBUTION OF MARKS

SEMESTER- I

1) Journal	-	10 marks
2) Conduct & Instruction	-	15 marks
3) Report Writing	-	15 marks
4) Oral	-	<u>10 marks</u>
		Total = 50 marks

SEMESTER- II

The Pattern of semester- II should be followed as it is semester – I.



Solapur University, Solapur **Nature of Question Paper For Semester Pattern**

• Faculty of Social Science

(UG/PG Courses)

(w.e.f. June 2010)

Time - 2 Hours

Total Marks– 50 Marks

Instruction – (1) All questions are Compulsory.

(2) Figures to the Rights indicate full marks.

- | | | |
|--------------|---|-----------------|
| Q. 1) | Multiple choice questions (Ten)
(With four alternatives) | 10 Marks |
| Q. 2) | Write short Answer of the following
(Any four out of six) | 08 Marks |
| Q. 3) | Write short notes
(Any four out of six) | 12 Marks |
| Q. 4) | Answer any one long type question of the following
A
<u>OR</u>
B | 10 Marks |
| Q. 5) | Long answer type question | 10 Marks |

1. Structure of the courses :-

- A) Each paper of every subject for Arts, Social Sciences & Commerce Faculty shall be of 50 marks as resolved by the respective faculties and Academic Council.
- B) For Science Faculty subjects each paper shall be of 50 marks and practical for every subject shall be of 50 Marks as resolved in the faculty and Academic Council.
- C) For B. Pharmacy also the paper shall be of 50 marks for University examination. Internal marks will be given in the form of grades.
- D) For courses which were in semester pattern will have their original distribution already of marks for each paper.
- E) For the faculties of Education, Law, Engineering the course structure shall be as per the resolutions of the respective faculties and Academic Council.

2. Nature of question paper:

A) Nature of questions.

"20% Marks - objectives question" **(One mark each and multiple choice questions)**

"40% Marks - Short notes / Short answer type questions / Short Mathematical type questions/ Problems. **(2 to 5 Marks each)**

"40% Marks - Descriptive type questions / Long Mathematical type questions / Problems. **(6 to 10 Marks each)**

- B) Objective type question will be of multiple choice (MCQ) with four alternatives. This answer book will be collected in first 15 minutes for 10 marks and in first 30 minutes for 20 marks.
Each objective question will carry one mark **each**.
- C) Questions on any topic may be set in any type of question. All questions should be set in such a way that there should be permutation and combination of questions on all topics from the syllabus. As far as possible it should cover entire syllabus.
- D) There will be only five questions in the question paper. All questions will be compulsory. There will be internal option **(40%)** and not overall option.
for questions 2 to 5.

3. Practical Examination for B. Sc. I. will be conducted at the end of second semester.

4. Examination fees for semester Examination will be decided in the Board of Examinations.

The structures of all courses in all Faculties were approved and placed before the Academic Council. After considered deliberations and discussion it was decided not to convene a meeting of the Academic Council for the same matter as there is no deviation from any decision taken by Faculties and Academic Council. Nature of Question Paper approved by Hon. Vice Chancellor on behalf of the Academic Council.