

**SOLAPUR UNIVERSITY SOLAPUR**

**REVISED SEMESTER WISE SYLLABUS**

**OF PSYCHOLOGY**

**AT**

**M.A Part –II**

**( Specialization in Clinical, Industrial and  
Counselling Psychology )**

**( Introduced From June 2011)**

**M.A. PART – II Psychology**  
**Revised Semester Wise Syllabus**  
**To be Introduced from June 2011**

A student has to offer one the following two specialized courses

**I) Specialization in Clinical Psychology [ 400 Marks ]**

Group F1 ( Clinical Psychology Course )

1. Group FI CLI Paper I Psychopathology
2. Group FI CLI Paper II Psycho diagnostics
3. Group FI CLI Paper III Clinical & Community Interventions
4. Group FI CLI Paper VI Practicum

N.B. 50 + 50 Marks Semester III & IV Examination for each paper

**II) Specialization in Industrial Psychology [ 400 Marks ]**

Group F 1 ( Industrial Psychology Course )

1. Group F1 IND Paper I Personnel Psychology and Human Resource Development.
2. Group FI IND Paper II Organizational Behaviour and Organizational Development.
3. Group FI IND paper III Consumer Behaviour and Marketing.
4. Group F1 IND Paper IV Practicum.

N.B. 50 + 50 Marks Semester III & IV Examination for each paper

**III) Specialization in Counselling Psychology. [ 400 Marks ]**

Group F 1 ( Counselling Psychology Course )

Gr F-I (Coun) I Psychological guidance and Counselling

Gr F-I (Coun) II Assessment in Counseling Psychology

Gr F-I (Coun ) III Interventions, Strategies in Counseling

Gr F-I (Coun) IV Practicum .

N.B. 50 + 50 Marks Semester III & IV Examination for each paper

**Specialization in clinical Psychology**  
**Group F1 CLI**  
**Paper No. I,**  
**Psychopathology**  
**SEMESTER -III**

**Unit 1: Introduction to Psychopathology**

- 1.1. Historical and scientific consideration
- 1.2 Multiaxial classification: DSM IV –TR
- 1.3 International Classification ICD-10
- 1.4 Current Paradigms in Psychopathology
  - a) Physiology Paradigm
  - b) Psychoanalytic Paradigm
  - c) Behaviourism and Learning Paradigms

**Unit 2: Stress and Adjustment Disorders**

- 2.1: Stress and stressors
- 2.2. Coping strategies
- 2.3 Adjustment disorder
- 2.4 Treatment and prevention of stress disorders.

**Unit 3: Anxiety, Somatoform, Dissociative Disorders**

- 3.1 Anxiety disorders
- 3.2 Somatoform disorders
- 3.3. Dissociative disorders

**Unit 4: Schizophrenic disorders**

- 4.1. History
- 4.2 Clinical symptoms
- 4.3 Sub categories
- 4.4. Causal factors
- 4.5 Treatment

**Unit 5: Mood disorders**

- 5.1. Unipolar Mood disorders.
- 5.2 Bipolar mood disorder
- 5.3 Causal factors in mood disorders
- 5.4 Treatment of Mood disorders
- 5.5 Suicide

## **SEMESTER -IV**

### **Unit 6: Personality disorder**

- 6.1 Types of personality disorders
- 6.2 Clinical symptoms of antisocial personality
- 6.3 Causal / Etiological factors of antisocial personality
- 6.4 Treatment on personality disorders.

### **Unit 7:- Substance Related disorders**

- 7.1. Alcoholism
- 7.2. Hard drugs
- 7.3. Nicotine & smoking
- 7.4. Marijuana
- 7.5 LSD and related drugs

### **Unit 8 :- Sexual disorder**

- 8.1 Gender identify disorders
- 8.2 Paraphalias
- 8.3 Sexual dysfunction

### **Unit 9:-Development disorders**

- 9.1 Mental Retardation, Classification/etiology & diagnosis
- 9.2 Childhood disorders  
Autism, learning disorder

### **Unit 10:- Brain disorder**

- 10.1 Dementia
- 10.2 Epilepsy
- 10.3 Disorders associated with infection, tumor, toxin

### **Book. For Reading**

1. Carson Robert C, Butcher James, N, Mineka Susan Abnormal Psychology and Modern life, 10<sup>th</sup> ( 1988) edition, Addison - Wesley Education Publishers Inc.
2. Davison, Gereld C and Neale John M(1978) Abnormal Psychology, second edition, John wiley and sons Inc,
3. Barlow and Durand (1999) : Abnormal Psychology, second edition, Pacific Grove, Book / Cole Publishing Co.
4. Shaha, L.P. and Shaha Hema ( 1969), Handbook of Psychiatry, Reprint 201, Vora Medical Publications, Mumbai
5. International statistical classification of Diseases and related health problems tenth Revision (ICD-10), world health organization General.
6. Diagnostic and statistical manual of mental Disorders (DSM-IV- TR) Jaypel Brothers Medical Publishers ( P) Ltd. New Delhi.

### **Books for Reference**

1. Coleman, James, C. (1976): Abnormal Psychology and modern Life, 5<sup>th</sup> edition, D.B. Taraporevala, Sons and Co.
2. Reiss, Peterson, Eron and Reiss (1977) Abnormality, Macmillan publishing co. Inc.
3. Kisker George W. ( 1972) : The Disorganized personality, Second edition, McGraw-Hill,
4. Zax Melvin and Cowmen, Emory L. (1976) : Abnormal Psychology, Second edition, Holt, Rinechart and winston.
5. Kleinmuntz, Benjamin ( 1974) : Essentials of Abnormal Psychology, Harper and Row publishers.

**Group-F-1-Cli.**  
**Paper - II**  
**PSYCHODIAGNOSTICS**  
**SEMESTER -III**

**Unit 1 : INTRODUCTION**

- 1.1 : Definition & Characteristics of clinical psychology.
- 1.2 : Activities and work setting of clinical psychologists.
- 1.3: Distinguishing clinical psychology from related professions.
  - a) Psychiatry
  - b) Counselling Psychology
  - c) School Psychology
  - d) Social Work
  - e) Other Related Profession

**UNIT NO. 2 HISTORY & RECENT DEVELOPMENT**

- 2.1 Ancient Roots
- 2.2 Eighteenth and Nineteenth Century
- 2.3 The birth of displine 1890-1910
- 2.4 Childhood-World war I through World War II
- 2.5 Adolencece : Post World war II and the development of and identity
- 2.6 Adulthood - Milestones and Growing Pains

**Unit 3 : GENERAL ISSUES IN PSYCHOLOGICAL ASSESSMENT.**

- 3.1. State I - Planning the Assessment.
- 3.2 Stage II - Data Collection
- 3.3 Stage III - Process Assessment Data
- 3.4 Stage IV - Communicating Assessment findings.
- 3.5 Testing Versus Assessment.

**UNIT 4: CLINICAL INTERVIEW :**

- 4.1 Purpose of the Interview
- 4.2 Types of clinical interviews
- 4.3 The importance of repport
- 4.4. Communication Startegies
- 4.5. Phases of Interview
- 4.6 Mental Status Examination

**UNIT 5 : INTELLECTUAL AND EDUCATIONAL ASSESSMENT.**

- 5.1 Intelligence.
  - A) Measurement
  - B) Interpretation of individually administered test

- C) Screening Measure.
- D) Issues and controversies.

#### 5.2 Educational Assessment.

- A) Test of Aptitude and Test of Achievement
- B) Test of Aptitude
- C) Test of Achievement
- D) Learning Disabilities

### **SEMESTER IV**

#### **UNIT 6: PERSONALITY ASSESSMENT.**

- 6.1: Projective Methods.
- 6.2 : Objective Methods.
- 6.3 : The place of personality Assessment in contemporary clinical psychology.

#### **UNIT 7 : BEHAVIORAL ASSESSMENT :**

- 7.1 Defining features of Behavioural Assessment.
- 7.2 Functional Analysis.
- 7.3 Behavioural Assessment Methods.
- 7.4 Assessment of Dysfunctional cognitions.

#### **UNIT 8 : NEUROPSYCHOLOGICAL ASSESSMENT :**

- 8.1: An introduction to clinical Neuropsychology.
- 8.2 Approaches to Neuropsychological Evaluation.
- 8.3 : Halstead – Neuropsychological examination.
- 8.4 : Luria- Neuropsychological examination.
- 8.5 : Individulized Neuropsychologist test batteries
- 8.6 : Factors affecting performance on Neuropsychological tests.

#### **UNIT 9 : BIOLOGICAL TREATMENT OF EMOTIONAL DISTURBANCES.**

- 9.1 Kinds of problems to psychopharmacological theory.
- 9.2 Effects of classes of psychotropic drugs.
- 9.3 Complexities associated with psychotropic drugs.
- 9.4 Electroconvulsive therapy.

**UNIT 10 : PROFESSIONAL AND ETHICAL ISSUES IN PROVIDING  
CLINICAL SERVICES.**

- 10.1 Code of Ethics.
- 10.2 Ethics committee.
- 10.3 Ethical issues in practice.

**Books for Reading**

- 1. Jeffery E. Hecker, G.L. Thorpe ( 2005) Introduction to clinical Psychology : Jeinee Practice & Ethics.
- 2. C.E. WALKER (Edition). Clinical Practice of Psychology. Pregman press, New York.
- 3. Benjamin B. Wolman: Handbook of clinical psychology McGraw Hill Company.

**Books For Reference.**

- 1. Sol. L. Garfield (1974) clinical Psychology: The study of Personality & behaviour.
- 2. Sol. L Garfield – Introductory clinical Psychology. The Macmillan company New York.

**Gr -FI-CLI.  
Paper - III  
Clinical and Community Interventions.  
SEMETER-III**

**Unit 1 :- Introduction of clinical Intervention .**

- 1.1 : Relativity
- 1.2 : Spirituality and Religion.
- 1.3 : Community Genogram.
- 1.4 : Cultural Intentionality.
- 1.5 : Scientist and practitioner, Ethics and the counseling and Psychotherapy process.

**Unit 2: Foundation Theories and Skills for Effective counseling.**

- 2.1 Individual, Family and cultural Empathy.
- 2.2 The Multicultural cube.
- 2.3 Empathy, Family and Multicultural issues.
- 2.4. The family genogram.
- 2.5. Multicultural empathy and competence

**Unit 3:- Intentional Interview.**

- 3.1 Microskills and Decisional counselling.
- 3.2 Multicultural Issues Microskills and Decisional counselling.
- 3.3 Microskill Approaches-The Pragmatics & constructivism
- 3.4 Decisional counselling : pragmatism in action.
- 3.5 Microskills and brief solution.

**Unit 4 : Developmental counselling and therapies :**

**Individual and family Therapy**

- 4.1 The DCT postmodern.
- 4.2 Central DCT constructs of integrating skills and theories.
- 4.3 DCT in Applied Practices.
- 4.4 Systematic cognitive Developmental Therapy and family system.
- 4.5 Using SCDT in Applied practices.

**UNIT 5: Multicultural counselling and therapy**

- 5.1 Approaches to multicultural counselling and therapy
- 5.2 MCT as Metatheory
- 5.3 Multiple context and experience of MCT.
- 5.4 Cultural Identity Developmental Theory.

## **SEMESTER IV**

### **Unit 6 : Multicultural counselling and Therapy**

#### **Integrative practice.**

- 6.1 Feminist Therapy.
- 6.2 Applying MCT with culturally Different clients.
- 6.3 Basic Meditation.
- 6.4 MCT Practice and multiple helping Roles.
- 6.5 Traditional Healing.
- 6.6 The Liberation of consciousness self in relation.

### **Unit: 7:- HISTORICAL THEORIES OF COUNSELLING AND PSYCHOTHERAPY**

- 7.1 :- Central constructs of psychodynamic Theory.
- 7.2 :- Object Relational Theory.
- 7.3 :- The family unconscious and multicultural Psychodynamic theory.
- 7.4 :- Psychodynamic Theory for case conceptualization.
- 7.5 :- Psychodynamic theory for treatment of personality disorder.

### **Unit 8 :- PSYCHODYNAMIC COUNSELLING AND THERAPY : APPLICATIONS FOR PRACTICE.**

- 8.1 :- Free Association- The central strategy.
- 8.2 :- Interpretation
- 8.3 :- Dream Analysis.
- 8.4 :- Using Regression techniques to RPT.
- 8.5 :- Analysis of Resistance.
- 8.6 :- Analysis of Transference and counter transference.
- 8.7 :- Projective identification.
- 8.8 :- Treating the family-multicultural unconsciousness.

### **Unit 9:- COGNITIVE BEHAVIORAL THERAPY.**

- 9.1 :-Multicultural Approach.
- 9.2 :-Meichenbaum's construction of cognitive behavioural therapy.
- 9.3 :-Applied Behavioural Analysis, Foundation of cognitive behavioural therapy
- 9.4 :- Cognitive Behavioural treatment techniques.
- 9.5 :- Albert Ellis and R-E-B.T.
- 9.6 :- Glasser and Reliaty Therapy
- 9.7 :- Aaron Beck and Cognitive therapy.
- 9.8 :-Arnold Lazrus and multimodel approach.

**Unit 10 : HUMANISTIC AND EXISTENTIAL APPROACH :-**

10.1: Rogerian revaluation and Roger's work.

10.2: Clemnont vontress: searching for life meaning across cultures.

10.3: Viktor Frankl logo theory

10.4 Fritz Perls and Gestalt Therapy.

**Book for reading :-**

1. ALLEN E. IVEY, MARY BRADFORD IVEY, LYNN SIMEK-MORGAN; " Counselling and Psychotherapy ( 1997) : Toranto : Allyn and Becan.
2. Gerald corey " Theory and practice of counselling and Psychotehrapy 3<sup>rd</sup> Edn. (1986) : California : Brooks / cole Publishing company, Monterey, California.
3. Vasanta Patri : counselling psychology ( 2003) friends publication New Delhi .

**Book for Reference :-**

1. Weiner, B ( 1983) clinical Methods in Psychology NY. John -Wiley and sons.
2. Neizal M.T. Bernstein ( 1995) : Introduction to clinical psychology 2<sup>nd</sup> edi.
3. Wolman B.B. ( ed.) handbook of clinical psychology.
4. James C. Hansen, Richard, R. Stevic, Richard w. warner, sr. : counselling theory and process : third edition ( 1982) : Toranto : Allyn and Bacon, INC.

**GR F1 – CLI  
PAPER NO. IV:  
PRACTICUM**

The students will have to visit mental hospitals or clinics of related any institutions for collecting case studies for semester exam. They will have to study at least two cases for third semester exam. and two cases and one study to report for fourth semester exam. They have to administer appropriate psychological test for the given list on the same cases and they have to prepare Practicum Report on their filed work separately for each semester. This Report should consist of detailed case studies in part-I and psychological testing in part II along with the results and interpretation & visit report in III part for fourth semester.

**LIST OF CLINICAL TECHNIQUES**

1. Indian Adaptation of TAT.
2. Ink-Bolt Test.
3. MMPI.
4. EPQ-R.
5. Neo – PI – R.
6. Indian Adaptation of wescher scale.
7. Manifest Anxiety Scale.
8. P.G.I. Mental Health Inventory.
9. Deep Relaxation Therapy.
10. K.N.P.I.
11. Clinical Interview Form.
12. A Comprehension Scale of Tension.
13. The 16 PF Questionnaire.
14. Eight State Questionnaire.
15. Clinical Case Study Form.
16. Adjustment Inventory.
17. Bhatia - Test Battery.
18. Bender Gestalt Test.
19. Binet – Kamat Test of General Mental Ability.
20. Draw – A Man Test.
21. Siguin from Board Test.

22. Emotional Maturity Scale.
23. Free Association Test.
24. Sentence Completion Test.
25. Depression Scale.
26. Medica – Psychological Questionnaire.
27. Presentive stressful life event scale.
28. Dysfunction Analysis Questionnaire.
29. Reaction to frustration scale.
30. Defense Mechanism Inventory.
31. Fear Check List.
32. Neurosis measurement scale.
33. Behaviour Deviance Scale.
34. Gessel's Children Behaviour Schedule.
35. Behavioural Assessment Schedule.
36. Leytons Obsessional Inventory.
37. Raven's progressive matrix.
38. Vineland Social Maturity Scale.

The Final Practicum Examination of semester III/IV will be held at the end of the academic year. Each semester exam will be 50 (Fifty) Marks. The Practicum exam. Will be three hours duration. Each batch consist 10 students. The candidate has to administer a psychological test on a subject and diagnose the case clinically.

### **DISTRIBUTION OF MARKS :**

#### **SEMISTER-III**

Full Marks	:	50 Marks
Practicum Report	:	25 Marks
Conduct of Test	:	5 Marks
Test Report Writing	:	10 Marks
Viva-Voice	:	10 Marks

(Marks distribution should be same for Semester IV)

# **SPECIALISATION IN INDUSTRIAL PSYCHOLOGY**

## **GR F1 – (IND) PAPER NO. – I PERSONNEL PSYCHOLOGY AND HUMAN RESOURCE MANAGEMENT SEMESTER -III**

### **Unit 1 : Framework of Personnel Psychology.**

- 1.1 Nature and scope of personnel psychology, functions of personnel psychologist.
- 1.2 Constituents of the process of Human Resource Management (HRM) acquisition, development, motivation and maintenance of human resource.
- 1.3 A systems view of personnel psychology and its relationship to HRM.
- 1.4 Personnel psychology the present status and emerging trends.

### **UNIT 2. Job Analysis :**

- 2.1 Nature, purpose and uses of job analysis
- 2.2 Job descriptions and job specifications
- 2.3 Methods of job analysis : interview, observation, checklist, questionnaire, work participation, technical conference, diary method, critical incident technique.
- 2.4 Analysis of managerial jobs.

### **UNIT 3. Personnel Selection :**

- 3.1 Human resource planning, recruitment and selection
- 3.2 Sources of recruitment
- 3.3 Personnel selection methods – interview, psychological tests, reference checks, biographical information blank, work sample tests.
- 3.4 Reliability and validity of predictors.

### **UNIT 4. Selection of Managers :**

- 4.1 Criteria of managerial success.
- 4.2 Predictors : cognitive ability tests, personality inventories, leadership ability tests, projective techniques, personal history data, peer assessment
- 4.3 Situational tests, leaderless group discussion, in-basket exercises, business games and assessment centers.
- 4.4 Problems involved in the use of psychological instruments in selection and their solution.

**UNIT 5. Selection Decisions**

- 5.1 Traditional approach to selection decisions.
- 5.2 Alternative prediction models- multiple regression model, multiple cut-off model, multiple hurdle model.
- 5.3 Evaluating selection efficiency, selection ratio, the base rate utility assumptions.

**SEMESTER -IV****UNIT 6. Training and Development :**

- 6.1 Training, development and education,
- 6.2 Identifying training needs.
- 6.3 Methods of training :
  - (1) Off-the-job-training : lecture, conference/group discussion, programmed learning, audio-visual aids, simulation exercises.
  - (2) On-the-job training : apprenticeship programmes, job instruction training.
- 6.4 Evaluating training effectiveness.

**UNIT 7. Performance Appraisal :**

- 7.1 Definition and Appraisal Process
- 7.2 Appraisal Methods :
  - (1) Absolute standards : essay appraisal, critical incident appraisal, checklist, graphic rating scale, forced choice technique, behaviorally anchored rating scales.
  - (2) Relative standards : group order ranking, individual ranking, paired comparison.
  - (3) Appraisal which involves the use of objectives : MBO Approach
- 7.3 Errors in performance appraisals, suggestions for improving performance appraisal.

**UNIT 8. Rewards, Pay structure and Compensation :**

- 8.1 Types of rewards – intrinsic Vs. extrinsic, financial vs. non-financial, performance based vs. membership based.
- 8.2 Criteria on which rewards can be offered : performance, effort, seniority, skills possessed, job difficulty.

- 8.3 Job evaluation – definition, methods, establishing the pay structure, and other uses.
- 8.4 Incentive compensation for workers and executives.

**UNIT 9. Safety, Accidents and Ergonomics**

- 9.1 Ergonomic approaches to work design- antropometric approach; biomechanic approach.
- 9.2 Situational factors in accident occurrence- job factors, work schedule atmospheric conditions.
- 9.3 Individual factors in accidents – accident repetitiveness, specific individual factors : vision, length of service, perceptual – motor relationship.
- 9.4 Preventive measures – safety training, persuasion and propaganda, personnel selection and placement, ergonomic approach.

**UNIT 10. Psychological Aspects of Labor Unions :**

- 10.1 Reasons for joining unions
- 10.2 Unions and job satisfaction
- 10.3 Collective bargaining, unions and organizational effectiveness.
- 10.4 Introduction to labour legislation- Factories Act and Laws related to wages, industrial relations, and social security.

**BOOK FOR READING :**

1. Miner, John B : Industrial – Organizational Psychology, Mcgraw - Hill, Inc (1992)
2. Decenzo, David A and Robin, Stephen R : Personnel / Human Resource Management, New Delhi, Prentice – Hall India, Pvt. Ltd. (1993).
3. Mamoria C. B. : Personnel Management : Management of Human Resources, Mumbai, Himalaya Publishing House (1991).
4. Muchinsky, Paul M. : Psychology Applied to work, 6<sup>th</sup> Edition, Thomson Asia Pvt. Ltd., (2000).

**BOOKS FOR REFERENCE :**

- UNIT 1. Rudrabasavraj M. N. : Dynamic Personnel Administration, Management of Human Resources, Mumbai, Himalaya Publishing House (1991).
- UNIT 2. Arnold J., Robinson, Iran, T and Cooper, Cary L : Work Psychology, Macmillan India Ltd., 1996.

- UNIT 3. Jayagopal, R : Human Resource Development : Conceptual Analysis and Strategies, Sterling Publishing, New Delhi, 1990
- UNIT 4. Paranjpe Vivek : Human Resource Management in India : Legal Perspective, capital Books International, New Delhi, 1991.
- UNIT 5. Verma, Pramod : Emerging Issues in Human Resource Development, Oxford and IBH Publishing, New Delhi, 1992.

**GR F1 – (IND)**  
**PAPER NO. – II**  
**ORGANIZATIONAL BEHAVIOUR AND**  
**ORGANIZATION DEVELOPMENT**  
**SEMESTER -III**

**UNIT 1. OB-An Introduction and Work Motivation :**

- 1.1 Organizational Behaviour – Historical background and scope of study; factors affecting behaviour in organizations – individual level factors, group level factors, and organization systems level factors.
- 1.2 Challenges and opportunities for OB – responding to globalization, managing workforce diversity, improving quality and productivity, improving people skills, empowering people, stimulating innovation and change.
- 1.3 Work Motivation – basic concepts, content theories ( Maslow's need hierarchy theory, Alderfer's ERG theory, Herzberg's Two factor theory, McClelland's three needs theory); process theories : expectancy theory-Vroom's VIE model, Porter and Lawler's model. Smith and Granny model, equity theory, attribution theory and behaviour modification theory.
- 1.4 Quality of work life – meaning and components, improving QWL job enrichment, flexible work schedules, natural work teams, quality circles.

**UNIT 2. Values, Attitudes, and job Satisfaction :**

- 2.1 Values – definition, types of values, values across cultures, values and behaviour.
- 2.2 Attitudes definition and components, types of job attitudes (job satisfaction, job involvement, and organizational commitment)
- 2.3 Job Satisfaction – factors affecting job satisfaction, measuring satisfaction, job satisfaction and job behaviour (productivity, absenteeism, and turnover), how dissatisfaction is expressed.

**UNIT 3. Communications in Organizations and Interpersonal Conflict :**

- 3.1 Communication process : barriers in communications.
- 3.2 Communication technology : management information systems, telecommunication.

- 3.3 Interpersonal communication, factors involved in interpersonal communication, communication networks, improving communications.
- 3.4 Non-verbal communication and its role in interpersonal relationship.
- 3.5 Interpersonal conflict – process of interpersonal conflict and stages involved in its development, strategies for resolving interpersonal conflicts.

**UNIT 4. Leadership and Power :**

- 4.1 Leadership – what is leadership ? approaches to the study of leadership – trait approach (trait theories), behavioural approach (Ohio State studies, University of Michigan studies, Scandinavian studies), Contingency approach
- 4.2 Contingency Theories – Fiedler model, Hersey and Blanchard's Situational Theory, Path-Goal Theory, Leader – Member Exchange Theory, Leader – Participation Model:
- 4.3 Charismatic leadership, Transformational leadership, Visionary leadership, Substitutes for leadership.
- 4.4 Power : definition of power; leadership and power, bases of power : coercive power, reward power, legitimate power, expert power, referent power ; power tactics.

**UNIT 5. Organizational Structure :**

- 5.1 Organizational Structure – definition and basic elements (work specialization, departmentalization, chain of command, span of control, centralization vs. decentralization, formalization.)
- 5.2 Common organizational designs – simple structure, bureaucracy, the matrix structure; new options – the team structure, virtual organization, boundary less organization.
- 5.3 Organizational designs and employee behaviour
- 5.4 Why do structure differ ? – strategy, size of the organization, technology, environment.

**SEMESTER -IV****UNIT 6. Job Stress and Well- being at work :**

- 6.1 Bases of well – being : opportunity for control, skill use, externally generated goals, environmental variety, availability of money, physical security, opportunity for interpersonal contact, valued social position.
- 6.2 Components of mental health – affective well – being, competence, autonomy, aspiration, integrated functioning.
- 6.3 Job Stress : What is job stress; sources of job stress; coping with job stress; organizational strategies for minimizing stress.
- 6.4 Work- Family Conflict : family – work interaction; models of work– family relationship : spilt over model, compensation model, segmentation model.
- 6.5 Stress in working women and women executives.

**UNIT 7. Organization Development :**

- 7.1 Definitions of organization development (OD)
- 7.2 A history of OD
- 7.3 Underlying values and assumptions
- 7.4 Systems concept – organization as a system : OD views organization from systems point of view.

**UNIT 8. Foundations of OD :**

- 8.1 Models and theories of planned change.
- 8.2 Forces for change – (nature of workforce, technology, economic shocks, competition, social trends, world politics); what can be changed – structure, technology, physical setting and people; a normative re-educative strategy of changing.
- 8.3 Resistance to change – individual and organisational resistance : overcoming resistance to change.
- 8.4 Strategies for planning and implementing change.

**UNIT 9. Managing the OD process :**

- 9.1 Diagnosis – diagnostic practices.
- 9.2 The Action component – OD interventions.
- 9.3 The Programme management component.

**UNIT 10. OD Intervention :**

- 10.1 Interventions for individual effectiveness : sensitivity training, life and-career planning, behaviour modeling, transactional analysis.
- 10.2 Interventions aimed at improving the effectiveness of teams and groups : team building, role negotiation, role analysis technique, socio-technical systems.
- 10.3 Interventions aimed at the effectiveness of inter-group relations  
Organizational mirroring process consultation, third party peace making.
- 10.4 Interventions aimed at improving the effectiveness of total organization Survey feedback, total quality management (TQM).

**BOOKS FOR READING :**

- 1. Luthans, Fred : Organizational Behaviour, McGraw – Hill International Edition ( 1995).
- 2. Robbins, K Stephen, P : Organizational 9<sup>th</sup> edition, New delhi, Prentice – Hall of India, Pvt, Lad. (2000).
- 3. Greenberg, Jerald and Buron, Robert A : Behaviour in Organization, New Delhi, Prentice – Hall of India Pvt. Ltd. (1999).
- 4. Davis, K. and Newstrom C.W. : Organizational Behaviour : Human Behaviour at work, McGraw – Hill (1993).

**BOOKS FOR REFERENCE :**

- 1. Sekaran, Uma : Organizational Behaviour – Text and cases, New Delhi, Tata McGraw – Hill Publishing Company (1989).
- 2. French, Wendell and Bell Cecil, H. Hr. : Organizational Development, 5<sup>th</sup> edition, New Delhi, Prentice – Hall of India, Pvt. Ltd. (1990).

**GR F1 – IND  
PAPER NO. – III  
CONSUMER BEHAVIOUR AND MARKETING.  
SEMESTER -III**

**UNIT 1. Consumer Behaviour and Marketing.**

- 1.1 Concept of Consumer behaviour and importance of its study.
- 1.2 Concepts of Marketing and selling; evolution of the concept of Marketing Management.
- 1.3 Applications of consumer behaviour principles to strategic marketing.

**UNIT 2. Bases for Segmenting Consumer Market.**

- 2.1 Market Segmentation on Demographic Basis.
- 2.2 Market Segmentation based on the distribution of disposable income.
- 2.3 Segmentation based on socio-cultural factors.
- 2.4 Segmentation based on psychological factors.

**UNIT 3. Consumer Needs, Motivation and Personality :**

- 3.1 Goals, needs and motivation.
- 3.2 Types of needs and their role in consumer buying behaviour.
- 3.3 Personality : Role in consumer behaviour.

**UNIT 4. Marketing Research.**

- 4.1 The concept of Marketing Research.
- 4.2 Types of Data : Primary data and secondary data, Sources of secondary data.
- 4.3 Methods of data collection.
- 4.4 Analysis of data and report writing.

**UNIT 5. Consumer Perception.**

- 5.1 Perception : Concept and Nature.
- 5.2 Subliminal Perception.
- 5.3 Dynamics of Perception : Perceptual Selection, Organisation and Interpretation.
- 5.4 Consumer Imagery : Self image, product positioning, evoked set and perceived quality.

**SEMESTER -IV****UNIT 6. Learning and Brand Loyalty :**

- 6.1 Basic principles of learning.
- 6.2 Theories of learning : Classical conditioning, instrumental conditioning and information processing.
- 6.3 Consumer Involvement.
- 6.4 Brand Loyalty.

**UNIT 7. Consumer Attitudes.**

- 7.1 Attitudes as learned predispositions.
- 7.2 Structural models of attitudes.
- 7.3 Attitude Measurement.
- 7.4 Attitude Change.

**UNIT 8. Communication and Advertising.**

- 8.1 Communication Process.
- 8.2 Barriers to Communication.
- 8.3 Advertising as a Source of Consumer Communication.
- 8.4 Methods of Presentation of Message through advertising.
- 8.5 Advertising effectiveness.

**UNIT 9. Consumer Decision Making.**

- 9.1 Different Views on Consumer Decision Making.
- 9.2 Components in Consumer Decision Making : Input, process, output.

**UNIT 10. Models of Consumer Decision Making.**

- 10.1 Nicosia Model.
- 10.2 Howard – Sheth Model.
- 10.3 Engel – Kollat – Blackwell Model.
- 10.4 Sheth Family Decision Making Model.

**BOOKS FOR STUDY :**

1. Schiffman, L. G. and Kanak, L. L. : Consumer Behaviour, 4<sup>th</sup> Edition Prentice – all of India Ltd., New Delhi, 1993.
2. Engel, J. F., Blackwell, R. D., and Miniard, P. W. : Consumer Behaviour : 5<sup>th</sup> Edition, Hinsdale, IL : Dryden Press, 1986.
3. Bennett, Peter D. and Kassarian, Harold H : Consumer Behaviour Foundations of Marketing Services, Prentice Hall of India Pvt. Limited, New Delhi, 1987.

**BOOKS FOR REFERENCE :**

1. Stanton, William . : Fundamentals of Marketing, 7<sup>th</sup> Ed., MCGraw – Hill Book Company, 1984.
2. Rogers, E. W. and Shoemaker, F. F. : Communication of Innovations, 2<sup>nd</sup> Edition, The Free Press, New York, 1971.
3. Kassarjian H. H. and Robertson, T. H. : Perspectives in Consumer Behaviour, Scott, Foreman and Company, Glenview III, 1973.
4. Farelly, John U., Howard J. A. and Ring, L.W. : Consumer Behaviour : Theory and Application, Allyn and Bacon, Inc. Boston, 1974.

**GR F1 – IND  
PAPER NO. – IV  
PRACTICUM**

The Students will have to visit industrial organization / organizations for case study to collect data on areas mentioned in the list. They have to apply appropriate psychological test from the given list on the related problem. They have to prepare project report on their field visit work for each semester. This report should consist of detailed case study on the basis of data collected at the visit and psychological testing along with the result and proper interpretations & visit report.

**LIST OF AREAS:**

1. Motivation.
2. Addiction.
3. Absenteeism.
4. Selection of Recruitment.
5. Accident Repeatitiveness.
6. Training.
7. Job Satisfaction.
8. Industrial Conflict.
9. Attitudes and behaviour towards work situation.
10. Organization climate.
11. Mental Health.
12. Other related areas in personnel psychology and organizational behaviour.

**LIST OF PSYCHOLOGICAL TESTS :**

1. Job Analysis.
2. Job motivation scale (Motivation)
3. Job Satisfaction.
4. Stress ( Job Stress Scale ) / Occupational Stress.
5. Myer-Briggs Trait Indicator.
6. Attitude toward Job.
7. Vocational Interest Test.
8. Accident Proneness.
9. Type A, Type B.
10. I-E Locus of Control.
11. Self concept.

12. Values.
13. Work Environment / organizational climate.

The Final Practicum Examination of semester III/IV will be held at the end of the academic year. Each semester exam will be 50 (Fifty) marks. The Practicum examination will be three hours duration. The candidate has to give a plan and suggest appropriate remedy to solve the problem. The problem will be given from the above mentioned areas.

**DISTRIBUTION OF MARKS :**

**SEMISTER –III**

Full Marks	:	50 Marks
Practicum Report	:	25 Marks
Report Writing on Problem	:	15 Marks
Viva-Voice	:	10 Marks
Total		50 Marks

Marks distribution should be same for semester IV

**SOLAPUR UNIVERSITY SOLAPUR**  
**SYLLABUS**  
**M. A. PART- II**  
**GROUP - F1 ( Coun.)**  
**Paper – I**  
**PSYCHOLOGICAL GUIDANCE AND COUNSELLING**  
**SEMESTER -III**

**Unit 1. COUNSELLING PSYCHOLOGY**

- 1.1 Definition, Nature and Scope
- 1.2 Historical development and current status
- 1.3 Basic principles and skills in counselling
- 1.4 Professional and ethical issues in counselling

**Unit 2. CAREER COUNSELLING AND GUIDANCE**

- 3.1 Definition, Nature and Scope
- 3.2 Guidance Movement in India

**Unit 3. COUNSELLING CHILDREN AND ADOLESCENT AND THEIR FAMILIES**

- 3.1 Identification of emotionally disturbed
- 3.2 Learning disabled
- 3.3 Underachiever
- 3.4 Socially disadvantaged
- 3.5 Talented children and counselling (Preventive and remedial)

**Unit 4. COUNSELLING FOR ALCOHOLICS AND ATTEMPTED SUICIDES**

- 4.1 Identification
- 4.2 Intervention
- 4.3 Prevention

**SEMISTER -IV**

**Unit 5. MARITAL , SEX RELATED FAMILY PROBLEMS**

- 5.1 Assessment and intervention
- 5.2 Women's issue

**Unit 6. COUNSELLING FOR THE AGED**

- 6.1 Identification of psychosocial problems
- 6.2 Counselling

**Unit 7. THE DEVELOPMENT OF CAREER BEHAVIOUR  
AND CHOICE**

- 7.1 Career development and vocationalization
- 7.2 Approaches to career development and choice

**UNIT 8. INTRODUCTION IN CAREER GUIDANCE  
AND COUNSELLING**

- 10.1 Principles for using information effectively
- 10.2 Types of delivery systems.
- 10.3 Sources of Occupation information in India

**BOOKS FOR READING**

1. Jones, R( 2001) : “ Theory and Practice of Counselling and therapy”, 3<sup>rd</sup> ed. Continuum, London ( Tower Building, 11, York Rd. London)
2. Herr, E.L. & Carmer , S.H. ( 1987) : “Career Guidance and Counselling through the life span, Sytematic Approach”, 3<sup>rd</sup> ed. Scoot, Foresman and Company, London
3. Gothard, B., Mignot, P., Offer M. & Ruff, M ( 2001) : “ Careers Guidance in Context”, Sage Publication, Londoan New Delhi.
4. Fuster, J.M . ( 1964) : “ Psychological Counselling in India” Bombay macmilan publism company Inc.
5. Knight , B.G. ( 1996) : “Psychotheapy with Older Adults”, 2<sup>nd</sup> Sage Publications, New Delhi.
6. Geldand, K & Geldand, D. ( 2004) : “Practical Counselling Skills Training”, Palgrave Macmill Limited ( Houndmills, Basingstoke, Hampshire RG 21 6 x S, United w.w.w.plagrave.com)

**BOOK FOR REFERENCE**

1. Donelson, E. & Gllanhan, J.C. : “Women : A Psychological Perspective “. John Wile / & Sons, London.
2. Geldand, K & Geldand, D. ( 2004) : “ Counselling Adolescents”, Palgrave Macmillan, New York.
3. Sharry.J. ( 2004) : “ Counselling Children Adolescents and Families”, Palgrave Macmillan New York.
4. Milner, J & O Byrne, Patrick ( 2004) : “Assessment in Counselling”, Palgrave Macmillan, New York.

5. Reid, Massie ( 2004) : “ Counselling in Different Setting”, Palgrave Macmillan, New York.
6. Richard, Nelson – Jones ( 2000) : “Introduction to Cognitive Skills”, Sage Publising New Delhi.
7. Hallahan D.P. & Kauffman, J.M. ( 1978) : “ Exceptional Children : An Introduction Education”, Engle Wood Kliffs.
8. Charles, J.O’Leary (1999): “Counselling Couples and Families”, Sage Publications, New Delhi
9. Kapur, M (1997) : “ Mental Health in Indian Schools”, Sage Publications, New Delhi.

**GROUP – F1 ( Coun.)**  
**Paper – II**  
**ASSESSMENT IN COUNSELLING PSYCHOLOGY**  
**SEMESTER -III**

**UNIT. 1 : INTRODUCTION**

- 1.1 Nature of psychological assessment
  - a) Difference between assessment and testing
- 1.2 Interview
- 1.3 Observation
- 1.4 Case-Study
- 1.5 Ethics of psychological testing

**UNIT 2 : ASSESSMENT OF DEVELOPMENT**

- 2.1 Nature of development
- 2.2 Vineland Social Maturity Scale ( VSMS)
- 2.3 Nancy- Baley Development Scale

**UNIT 3 : Assessment of Intelligence**

- 3.1 Nature of intelligence
- 3.2 Kamat-Binet Verbal Test of Intelligence
- 3.3 Weschele's Series of Intelligence: WAPPSI, WISC, WAIS
- 3.4 Raven's S.P.M. , C.P.M., A.P.M.
- 3.5 Bhatia's Performance Test of Intelligence
- 3.6 Cettell's Culture Fair Test of Intelligence Scale, I, II, III
- 3.7 Career Manurity Scale
- 3.8 Non-Verbal Test of Intelligence ( NVIT) by Dr. Nafde

**UNIT 4: Assessment of Personality :-**

- 4.1 Types of personally assessment
- 4.2 Historical background of personality testing
- 4.3 Cattells CPQ, ESPQ, HSPQ, 16 PF
- 4.4 EPQ-R
- 4.5 NEO-PI
- 4.6 Indian Adaption of Projective Tests- CAT, TAT
- 4.7 Rosenzweig picture frustration study
- 4.8 Sentence completion test

**SEMESTER -IV****UNIT 5 : ASSESSMENT OF APTITUDE**

- 5.1 Nature of aptitudes
- 5.2 History of aptitude testing
- 5.3 D.A.T.
- 5.4 D.A.T. –B
- 5.5 Revised Minnesota Paper Form Board Test
- 5.6 Scholastic Aptitude Test

**UNIT 6 : ASSESSMENT OF INTEREST**

- 6.1 Nature of Interest
- 6.2 Historical foundation of interest measurement
- 6.3 Mascarnihas Interest Inventory
- 6.4 Chatterji Non-language Reference Record .

**UNIT 7 : ASSESSMENT OF ATTITUDES AND VALUES**

- 7.1 Nature of attitude and values
- 7.2 History of attitude and values testing
- 7.3 Self- Attitude Scale
- 7.4 Rokeach's Value Survey

**UNIT 8 : REPORT WRITING**

- 8.1 Writing a case study report
- 8.2 Preparing a profile of an individual for career guidance in the report form.

**BOOKS FOR READING**

1. Murphy, K.R. & Davishofer, K.R. ( 1989) : “ Psychological Testing – Principle and Applications”, Prentice Hall Inc., New Jersey.
2. Walsh, W.B. & Betz, N.E. ( 1997) : “Tests and Assessment” 3<sup>rd</sup>. Prentice Hall Inc. Englewood Clifts, New Jersey .
3. Anastasi, A( 1997) : “ Psychological Testing” Macmillan, New York.
4. Manuals of the Psychological Tests covered.

**BOOKS FOR REFERENCE**

1. Cronbach, C.J. ( 1984 ) : “ Essential of Psychological Testing” 4<sup>th</sup> ed. Hapar and Row .
2. Climinero, A.R. ( 1986) : “Handbook of Behavioural. Assessment:” John Wiley & Sons, New York.
3. Freeman ( ) : “Psychological Testing”

**GROUP- F1 ( Coun. )**  
**PSYCHOLOGY Paper - III**  
**INTERVENTION STRATEGIES IN COUNSELLING**  
**SEMESTER -III**

**UNIT 1: Psychotherapy and Counselling**

- 1.1 Meaning, Nature
- 1.2 Skills and Rapport
- 1.3 Types of Psychotherapy : a) Supportive b) Reeducative  
c) Reconstructive
- 1.4 Orientations of Counseling : a) Psychodynamic,  
b) Humanistic, c) Behaviouristic d) Elective approach

**UNIT 2: Psychodynamic Counselling Approaches**

- 2.1 Sigmund Freud
- 2.2 Alfred Adler
- 2.3 Karl Jung
- 2.4 Karen Horney

**UNIT 3 : Transactional Analysis**

- 3.1 Eric Berze's theory of personality :  
a) Basic concepts,  
b) Techniques and skills
- 3.2 Application of T.A. to : a) Children b) Adolescents,  
c) Adults, d) Aged

**UNIT 4 : Humanistic Approaches**

- 4.1 Person centred approach:  
a) Carle Roger's Basic Concepts,  
b) Procedures,  
c) Techniques.
- 4.2 Application of PCT of problems of:  
a) Child b) Adolescent c) Adult, d) Aged

**UNIT 5 : Gestalt Therapy**

- 5.1 a)Fritz Perls Basic concepts, b) Procedures c) Techniques
- 5.2 Application of G.T. to problems of :  
a) Child b) Adolescent, c) Adult d) Aged.
- 5.3 Existential Therapy
- 5.4 Reality Therapy

## SEMESTER -IV

### **UNIT 6 : BEHAVIOUR THERAPEUTIC APPROACHES**

- 6.1 Basic concepts
- 6.2 Techniques
- 6.3 Procedures of various behavioral therapies
- 6.4 Application to : a) Child b) Adolescent c) Adult d) Aged
- 6.5 Social skills training
- 6.6 Relaxation and meditation

### **UNIT 7 : COGNITIVE BEHAVIOR THERAPY**

- 8.1 Basic assumptions and concepts in cognitive therapy of Beck
- 8.2 Mecherbaum's cognitive behaviour modification
- 8.3 Application to : a) Child b) Adolescent c) Adult d) Aged

### **UNIT 8 : RATIONAL EMOTIVE BEHAVIOUR THERAPY BY ALBERT ELLIS**

- 8.1. Basic concepts
- 8.2 Techniques
- 8.3 Product of R.E.B.T.
- 8.4 Application to : a) Child b) Adolescent c) Adult d) Aged

### **UNIT 9 : THERAPY**

- 10.1 Major theoretical approaches to family and couples
- 10.2 Basic concepts
- 10.3 Assumptions
- 10.4 Techniques systems theory
- 10.5 Structural approaches to F.T. by Minuchin.

### **UNIT 10 : COPING STRATEGIES FOR STRESS MANAGEMENT**

- 11.1 Coping definition, classification
- 11.2 Coping as a process- stages
- 11.3 Coping resources – control as a coping style or skill
- 11.4 Problem focused vs. emotion focused coping
- 1.5 Stress management through Easterz ( Yoga, Vipassana) and western approaches.

**BOOK FOR READING**

1. Corsini, R.J. ( 2001) : “Handbook of Innovative Therapy , 2<sup>nd</sup> ed. N.Y. John Wiley
2. Corey.G. (1986) : “Theory and Practice of Counselling and Psychology”. California Books Cole Publishing.
3. Seligman, L. ( 2001) : “ Systems, Strategies and Skills of Counselling and Psychotherapy” N.J. Merill Prentice Hall.
4. Kaslow, H.W. (Ed.) ( 2002) : “ Com,prehensive Handbook of Psychotherapy ( Vol. I, II, III, IV) John Wiley & Sons.
5. Woolfe & Dryden, W. ( 1996) : “ Handbook of Counselling Psychology”, New Delhi, Sage.

**BOOKS FOR REFERENCE**

1. Gelso, C. & Fretz B. ( 1995) : “ Counselling Psychology”, A Prism Indian Edition.
2. Weiss & Weiss (1993) : “Effects of Psychotherapy with Children and Adolescents”
3. Jacobsan, N.S. & Ghurman, A.S. (1995): “ Clinical Handbook of Couple Therapy”, Guilford Press, New York.
4. Stewart, I. ( 2000) : “ Transactional Analysis Counselling In Action”, London, Sage
5. Beck, I.S. ( 1995) : “ Cognitive Therapy : Basics and Beyond”, Guilford Press, New York.
6. Nelson – Jones, R. ( 2002) : “ Essential Counselling Therapy Skills”, The Skilled Client Mode Sage, London.

**GROUP – F1 ( Coun. )**  
**PSYCHOLOGY Paper - IV**  
**COUNSELLING PSYCHOLOGY PRACTICUM**

1. At least two test are to be administered, scored, and interpreted and reported from each of the following types.
  - i) General Mental Ability (GMA)
  - ii) Personality
  - iii) Attitude
  - iv) Attitude
2. **Case Studies.**

To papered 2 case studies on the clients 1 on children , 1 on Adolescent .
3. **Group Testing :**

To administer following tests on a group of at least 5 cases from X or XII<sup>th</sup> std.

Verbal Intelligent Test	1
Interest Inventory	1
Personality Inventory	1
4. **A Field Visit**
5. Vocational biography of a successful person

## ANNUAL PRACTICUM EXAMINATION

Practicum Examination will be held at the end of the academic year. Each semester exam will be 50 (Fifty) marks. The Practicum exam will be of 3 hours duration for each Batch consist of 10 students. The examination should be conducted in the following manner with the given distribution of marks.

- |      |                                                                                                                                                                                               |                 |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
| i)   | The candidate has to bring his own client between the age of 15 and 20 years. He has to take a brief case history and administer appropriate psychological tests and counsel him accordingly. | <b>10 Marks</b> |
| ii)  | Candidate is given a description of an imaginary case and asked to determine his problem and the type of intervention needed.                                                                 | <b>05 Marks</b> |
| iii) | Viva                                                                                                                                                                                          | <b>10 Marks</b> |
| IV)  | Report Files :-                                                                                                                                                                               |                 |
|      | i) Conduct of tests and its Report.                                                                                                                                                           | }               |
|      | ii) Case Studies.                                                                                                                                                                             |                 |
|      | iii) Group testing                                                                                                                                                                            |                 |
|      | v) Field Visit                                                                                                                                                                                |                 |
|      | vii) Vocational Biography                                                                                                                                                                     |                 |
|      | Total Marks                                                                                                                                                                                   | <b>50 Marks</b> |

**(Marks distributions should be same for Semester IV)**



**Solapur University, Solapur**  
**Nature of Question Paper For Semester Pattern**  
**• Faculty of Social Science**  
**(UG/PG Courses)**  
**(w.e.f. June 2011)**

**Time - 2 Hours**

**Total Marks– 50 Marks**

**Instruction – (1) All questions are Compulsory.**  
**(2) Figures to the Rights indicate full marks.**

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

### 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.