

# VEER NARMAD SOUTH GUJARAT UNIVERSITY, SURAT

T. Y. B. A.

PSYCHOLOGY P. I.

( METHODOLOGY IN PSYCHOLOGY AND PSYCHOLOGICAL STATISTICS )

(To come in force from – June, 2004)

Duration 3 Hours

University Exam 70 Marks

Internal Exam 30 Marks

Total 100 Marks

<b>NOTE :</b>	(1) Methodology in Psychology	35 Marks
	(2) Psychological Statistics	<u>35 Marks</u>
		Total 70 Marks

## SECTION : 1

1– **SCIENCE :**

- Scientific Method.
- Goals of Sciences.
- Explanation.

2– **EXPERIMENT :**

- Experiment in Laboratory and natural Experiment.
- Experimental errors and their effects.
- Basic understanding of dependent variable.
- Independent Variables.
- Sampling variables.
- Different values of variable.
- Experimental conditions.
- Normal and control conditions.
- conducting on experiment.

3– **PSYCHO – PHYSICAL METHODS :**

- Method of average error.
- Method of minimal changes.
- Method of constant stimuli only nature and advantages.- and disadvantages of each method.
- Concept of absolute threshold.
- Differential threshold.

4– **SURVEY METHODS :**

- The nature of social surveys.
- Introduction.
- The purpose of surveys, sources of data.
- survey and experiments.
- Planning of social surveys.
- preliminary studies.
- Main planning problems.
- Pre. Test and pilot surveys.

5- **SOME PRINCIPLES OF SAMPLING :**

- Population and samples.
- parameters and statistics.
- Random sampling.
- Biased sampling.
- Stratification in sampling.
- Purposive sampling.

6- **QUESTIONNAIRE :**

- General principles of design.
- Question content.
- Question wording.
- Open and pre-coded questions.
- Question order.

7- **INTERVIEW :**

- Types of interviewing.  
The interviewers task.
- Selection and training.
- some practical points.
- Informal interviewing.

8- **PSYCHOLOGICAL TESTING :**

- Nature of psychological tests.
- Tests standardization norms.
- Reliability.
- Administration and scoring of the test in general.
- varieties of psychological test.
- Sources of information.
- Uses of psychological test.
- The professional ethics.
- Principal reasons for controlling the use of psychological test.

**READINGS :**

- 1- Anderson B.F.  
The Psychology Experiment and Scientific method, Belmont California, 1961
- 2- Zimmy George H;  
Method of Experimental psychology. New York, The Ronald press co; 1961
- 3- Noser C.A.;;  
Survey methods in Social investigation  
London, Hei Bemun 1967 ( also available in paperback edition)
- 4- Guilford J.  
Fundamental Statistics in Psychology and Education  
New York, Graw Hill Book Co., Inc. 1956
- 5- Anastasi A;  
Psychological Testing New York, The Macmillan Co. 1961 (also available in Indian Edition )  
1968
- 6- Young Pauline V.  
'scientific Social Surveys and Research' New Delhi, India, (3rd edition )
- 7- Festinger L and Katz D.  
'Research methods in behavioural sciences' New Delhi, Amerind 1970
- 8- kip(Dyi, Sih an[ pT[l “mni[(vXinn&> p1F(tSiA#i”, anDi p\kiSn, amdivid :  
1974  
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## **SECTION – II**

### **1– STATISTICS AND MEASUREMENT :**

- Need for studying statistical methods.
- Meaning of scores.
- Discrete and continuous series.
- statistical computation.
- Rounding off scores.
- Meaning of significant figures.
- Exact and approximate numbers.
- Computational rules.

### **2– FREQUENCY DISTRIBUTION :**

- Drawing up a frequency table.
- The limits of class interval.
- Midpoint of class interval.
- Graphic methods of presentation.
- The Histogram, The frequency polygon.
- cumulative frequency curve;
- The ogive

### **3– MEASURES OF CENTRAL TENDENCY :**

- Tabulation grouped and ungrouped data.
- Long and short methods of computing the mean.
- The median for grouped and ungrouped data.
- Computing Median.
- The Mode.
- Use the mean. Median and mode.

### **4– VARIABILITY :**

- Range.
- Quartile Deviation, Computing Quartile deviation.
- Computing quartile deviation for grouped data.
- Average deviation.
- Standard deviation.
- Long and short methods of computing SD for grouped and ungrouped data.

5– Quartile ( Q ), Deciles ( D ) Percentiles ( P ) computing there of ....

### **6– Percentile and Percentile Rank :**

- Computing percentile
- Rank from ranked data

### **7– CORRELATION :**

- Concept of correlation
- Rank difference correlation

### **READINGS :**

- 1– Garrett H.E.  
'Elementry Statistics' New York, Longmans Green & Com
- 2– Dowhie, N.M. and R.V. Health  
'Basis Statistical Methods', Harper national student (2nd ed)
- 3– p\i[. viy. k[. d[siE an[ Di[. D). J. dis a°y

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# VEER NARMAD SOUTH GUJARAT UNIVERSITY, SURAT

T. Y. B. A.

PSYCHOLOGY P. I.

PAPER – II

## COUNSELING PSYCHOLOGY PAPER : VII

To come in force from : June, 2004

Duration : 3 hours

University Exam : 70 Marks

Internal Exam : 30 Marks

Total 100 Marks

### OBJECTIVES :

Aim of syllabus is to familiarize with the counseling importance the nature of counseling highlight various application fields of counseling and use of different counseling techniques.

#### 1– INSTRUCTION OF COUNSELING :

- What is counseling & various Definitions of counseling.
- Meaning and purpose of counseling.
- Types of counseling.
- Goal of counseling and it's classification.
- The scope of counseling with reference to India.

#### 2– CLASSIFICATION OF THE PROBLEMS :

- Indian student's problems.
- Need of counseling.

#### 3– ROLE OF COUNSELOR :

- Motive of counselor.
- Who can become counselor.
- Education and Training required for counselor.
- Professional issues concerning counselor.
- Ethics involved with the job of counselor.

#### 4– APPLICATION OF COUNSELING :

- Counseling fields.
- Counseling requirements.

#### 5– COUNSELING HISTORY AND DEVELOPMENT :

- Stages of development.
- Counseling in America.
- Present stages of counseling development.
- Counseling in India.

#### 6– PROCESS OF COUNSELING :

- Stages of counseling process.
- Counseling environment.
- Interview process for counseling.
- Approach required for counseling.

- 7- **COUNSELING TECHNIQUES :**  
– Outline of various theories and methods of counseling.  
– Role of yoga and meditation in counseling techniques.

- 8- **VARIOUS COUNSELING APPROACH :**  
– Psychodynamic approach.  
– Humanistic approach.  
– Behavioral approach.

- 9- **SCOPE OF COUNSELING IN SOCIETY :**  
– Child counseling.  
– Family counseling.  
– Career counseling.  
– Crisis management counseling.  
– Mob / Mass counseling.  
– Alcohol / Drug abused counseling.  
– School counseling.  
– Clinical counseling.

- 10- **COUNSELING :**  
– Mal adjustment.  
– Health.

- 11- **GROUP COUNSELING :**  
– Meaning, process Types.  
– Aims and needs of group counseling.

**REFERENCE BOOKS JOURNALS :**

- 1- "Introduction of Counseling" By Tolber E.L. McGraw hill Book Company, New York 2<sup>nd</sup> Ed. 1972  
2- "Introduction to Counseling" By Belkin G.S. W.G. Brown Publishers (1988)  
3- "Psychological Counseling in India" by Fuster J.M. Macmillan Company (1964)  
4- "The Theory and practice of Counseling "Psychology" by Nelson J. Publisher Holt Rinchart & Winston (1981)  
5- "Stress and its management by Yoga" by Udupa, K.N. Publisher, Moti Lal Bansari Das. (1985)  
6- "Counseling, Theory and Process" by Hansen J.C., Stevic R.R. & Warner R.W. Publisher Allyn and Bacon Inc.  
7- "Guidance and Counseling in India Education" by Prem pasricha publisher, NCERT, New Delhi (1976)  
8- "Theory Methods and Process of Counseling" by George R.C. & Cristiani T.R. Publisher Prentice Hall Inc.  
9- "Counseling in Action" by Windy D. Publisher, Sage Publication (1988)  
10- "Salah Manovigyan" by Dr. S.T. Patel Publisher University Grant Nirman  
11- "Salah Manovigyan" by Prof. C.B. Dave, K.K. Mehta Publisher Viral prakashan.
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# VEER NARMAD SOUTH GUJARAT UNIVERSITY, SURAT

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PSYCHOLOGY P. I.

PAPER – III

## PSYCHOPATHOLOGY

To come in force from – June, 2004

Duration 3 Hours  
University Exam 70 Marks  
Internal Exam 30 Marks  
Total 100 Marks

### OBJECTIVES :

- 1– To impart knowledge about the normality and abnormality
- 2– To make students Understand the nature and course of various abnormal conditions.
- 3– To impart knowledge and skills needed for psychological assessment of different abnormal conditions.

### CONTENTS :

- 1– Introductions to psychopathology : The concept of normality and abnormality
- 2– Signs and symptoms of Mental illness : Delusions, Hallucinations, obsessions, compulsions etc.,
- 3– Psychological Models of psychopathology; psychodynamic, Behavioural, Cognitive Behavioural and Existential,
- 4– psychological Assessment of psychopathology; Diagnostic tests, Rating scales, History taking interview, Orientation to projective tests.
- 5– Anxiety Disorders : panic disorder and Agoraphobia, specific phobias, social phobia, obsessive compulsive disorder, Generalised anxiety disorder.
- 6– Soma to form disorders : Dissociative – disorders
- 7– Mood Disorders : Manic episode, Depressive episode, Bipolar affective disorder, Dysthymia.
- 8– Schizophrenia : Delusional disorder, Brief psychotic disorder.
- 9– Disorders due to psycho dire substance use : Alcohol and drug dependence.
- 10– Personality, Impulsive, Borderline, anxious avoidance dependent personality.
- 11– Stress disorders : Stress due to normal calamities like earthquake, storm, etc, and life events.

### READINGS :

- 1– Lamm A. ( 1997 ) Introduction to psychopathology N.Y. Sage.
- 2– Buss A.H. ( 1999 ) Psychopathology N.Y. John Wiley
- 3– DSM IV classification as published by opt.

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# VEER NARMAD SOUTH GUJARAT UNIVERSITY, SURAT

T. Y. B. A.

PSYCHOLOGY P. I.

PAPER – IV

## INDUSTRIAL PSYCHOLOGY

To come in force from – June, 2004

Duration 3 Hours.

University Exam 70 Marks

Internal Exam 30 Marks

Total 100 Marks

### OBJECTIVES :

- 1– The main objective of this course is to introduce the students to understanding of the conditions that influence the work occupation of the employee in Industry and organisation. And to help them to apply this knowledge in every field related to industry and organization.
- 2– To enable the students to understand and apply the knowledge about humanistic aspects of industry and organisation.
- 3– Students are expected to learn not only the theoretical aspects of the course but also to familiarize themselves with the skills, techniques of solving problems in industry and their implication.

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### 1– INTRODUCTION :

Definition, Nature and scope of Industrial psychology, Nature and scope of organisational Psychology, The relation between industrial and organisational psychology, Role of psychologist in an industrial organisation.

### 2– OCCUPATIONAL INFORMATION :

- Job description.
- Job analysis, its kinds and uses.
- Job evaluation.
- Occupational classification.
- organisational control.

### 3– EMPLOYEE SELECTION AND PLACEMENT :

- Individual differences in various traits and their implication for personal selection
- Procedure, tools, and techniques of personal selection

### 4– PSYCHOLOGICAL TESTING :

- Nature, characteristics and types of psychological tests
- Measurement of intelligence, aptitudes, personality and interest for selection.

### 5– TRAINING IN INDUSTRY :

- Nature of training process.
- Objective of training.
- Method of training..
- Evaluation of training.

6- **HUMAN ENGINEERING :**

- The problems, Time and motion studies. The Hawthorne studies  
Nature of work and fatigue and work environment and elimination of fatigue.
- Rest pause, hours of work.
- Problem of monotony and boredom.

7- **ACCIDENT AND ACCIDENT PREVENTION :**

- Types of industrial accidents.
- Accident proneness.
- Causes of accident.
- Accident prevention and safety programme.

8- **WORK MOTIVATION :**

- Motivation, Needs and incentives.
- Nature and types of incentives.
- Why people work.

9- **ATTITUDES, JOB SATISFACTION AND MORALE :**

- Measurement of attitudes.
- Factors relating to job satisfaction.
- Determination of morale.
- Improving morale.

10- **INDUSTRY, AS AN ORGANISATION :**

- Types of organisational relationship.
- Management's assumption about people.
- Types of groups in organization.
- Group dynamics.
- Variables affecting the integration in groups of organisational goals and personal needs.
- Intergroup problems in organizations.
- Problem of labour union – Management.

11- **SUPERVISION :**

- Nature and meaning of supervision.
- Evaluation of supervision.
- Supervision and leadership.
- The supervisory role.

**READINGS :**

- 1- Harrell T.W. – Industrial Psychology Oxford Book Co. New Delhi – 1964
- 2- Tiffin J. and McGmick E.J. – Industrial Psychology (5th ed) Prentice Hall
- 3- Schein E.H. – Organisation Psychology prentice Hall of India, 1968 chapter 1, 2, 4, 5.
- 4- Smith H.C. – Psychology of Industrial behaviour N.T. McGraw Hill 1955
- 5- Halloram J. Applied human relation, Organisational approach – New Delhi Prentice Hall of India, 1978
- 6- Deci E.L., Gilmer B.H. and Karn H.W. Readings in industrial and organisational Psychology N.Y. Mc Graw Hill 1972
- 7- Di[. b).a[. pr)K : ai]wi[(gk mni[(vXin y&(nv(s<T) g)\>Y(nmi<N bi[D<, amdivid : 1973.
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# VEER NARMAD SOUTH GUJARAT UNIVERSITY, SURAT

T. Y. B. A.

PSYCHOLOGY P. I.

PAPER – V

## EDUCATIONAL PSYCHOLOGY

Duration 3 Hours

To come in force from June, 2004

University Exam 70 Marks

Internal Exam 30Marks

Total 100 Marks

### OBJECTIVE :

The course is designed to promote an understanding of the application of Psychological Principles in the process of education. It is envisaged that students will develop skills of analysis and synthesis of theoretical approaches to education and will be able to critically evaluate various applications of psychology in educational settings.

### CONTENTS :

- 1– Nature, Scope and function of Educational psychology, psychology of Teaching
  - 2– Educational Importance of various aspects of development, characteristics of an effective teacher.
  - 3– Intelligence and its measurement, Types of Tests.
  - 4– Aptitudes and aptitude testing.
  - 5– Personality traits and their evaluation
  - 6– Educational implications of individual differences.
  - 7– General principles of learning : Theories, Aptitudes. Interest and Motivation effective study Habits, Acquiring motor skills and knowledge. Effective and creative thinking Transfer of training.
  - 8– Nature and scope of educational evaluation
  - 9– Techniques of evaluation
  - 10– Education for Health and safety.
  - 11– Vocational explanation and adjustment
- Exceptionality and special Education
- a– categories of Exceptionality, Labeling and educational relevance, physically challenged students, students with cognitive disabilities or brain dysfunction and communication disorders.
  - b– Students with emotional and behaviour disorders. Attentional deficit disorder (ADD), attentional deficit Hyperactivity disorder (ADHD), Gifted and talented students.
  - c– Specific learning and reading disability
  - d– Intervention and special education for various forms of exceptionality mainstreaming
- 13– Behaviour drives and adjustment, Individual adjustment and mental hygiene.
  - 14– Guidance, Meaning, need, types personal, personal social, educational vocational.

**READINGS :**

- 1- L.D. AMD Crow : Educational psychology (Rev. ed.)  
(New York American Book Co. 1958)
- 2- C.E. Ikinner : Elementary Educational Psychology  
(2nd Ed., New York, Prentice Hall  
1953)
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# VEER NARMAD SOUTH GUJARAT UNIVERSITY, SURAT

T. Y. B. A.

PSYCHOLOGY P. I.

PAPER – IV

## EXPERIMENTAL PSYCHOLOGY ( PRACTICALS )

To come force from June, 2004

Duration 3 Hours  
University Exam 70 Marks  
Internal Exam 30 Marks  
Total 100 Marks

**Note :** The experimental – practical examination will be held for four hours. One experiment to be performed and one to be reported without actual performance, and a viva voce examination thereafter to test candidate's knowledge of principles experimentation procedure and instrumentation.

In psychology practical, one batch for performance of practical should consist of 10 or less pairs of students depending upon the physical facilities in the laboratory. The report of every experiment included in the journal should have information regarding the experiment performed on the following points (10 points)

- 1– Problem. Its statement purpose of the study or working hypothesis to be tested, Introduction to the problem either for clarification or development of the problem in brief.
- 2– Aim of practical.
- 3– Apparatus : Just listing of various apparatus and material used. If necessary diagram of the experiment all set up should be drawn.
- 4– Experimental Design :
- 5– Variables :
- 6– Procedure : Describing exactly what is done from the beginning to end of the experiment, Instructions list of variable independent, dependent and controlled methods of recording and treatment of the data
- 7– Result and discussion : Summary tables, the graphs and the introspective report to be included. Row data is to put in the appendix at the end of the experiment discussion of the results.
- 8– Conclusions : Brief, precise and numbered points.
- 9– References : Book consulted
- 10– Appendix : Raw data, calculation sheets and original sheet used for recording purpose.

### Distribution of Marks :

<u>PRACTICAL – I</u>	Write up expe.	20
	Performance	10
<u>PRACTICAL – II</u>	Write up only	10
	Journal	20
	Viva	10
	Total ...	70

## **Perception and Sensation :**

1– Measurement of optical illusions (K. Exp. No, 27 P. 83)

### **ATTENTION :**

2– Span of attention (K. Exp. No.14, 15, 60, 62)

3– Division of attention ( V. Exp. No. 7, D.16)

### **SUGGESTION :**

4– Suggestion – progressive weights method (K. Exp. No. 23 P. 78)

### **EMOTION :**

5– Colour preference by paired comparison & Ranking method. (K. Exp. NO. 17, D. 66)

### **ASSOCIATION :**

6– Association on reaction time (V. Exp. No. 8 P. 18)

### **LEARNING :**

7– Learning by mirror drawing (K. Exp. No. 38, P. 99)

8– Learning to trace the maze (V. No. 24 P. 66 K. Exp. 38 P. 96)

9– Effects of intention to learn (V. Exp. 52 P. 203)

10– Conceptual content and learning (V. Exp. No. 19, P. 51)

11– Learning – letter digit substitution (K. Exp. 37, P. 100)

### **Remembering and Forgetting :**

12– Immediate span memory (K. Exp, No. 48, P. 104)

13– Transfer of training (V. Exp. No. 20, P.86)

14– Fatigue Mental fatigue (V. Exp. No. 26-B, P. 74)

### **HIGHER MENTAL PROCESSES :**

15– The growth of concepts (V. Exp, No, 42 P. 107)

### **BOOKS :**

1– Kuppuswamy B. Elementary experiments in Psychology. Mysore city. Westey press & Co. 1954

2– Valentine C.W. Introduction to experimental Psychology University, utorial press Ltd., 1953

3– Woodworth R.S.g Schlosbery H. Experimental Psychology Calcutta (1971) IBH Publishing Company.

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