

SCHEME OF EXAMINATION M.Sc PSYCHOLOGY

(A Choice based Credit System w.e.f. 2019–2021)

In Semester I and II, there would be five core courses (four theory papers and a practical) one Discipline Centric Elective course, a seminar and self study paper presentation in each semester. Each Student will opt for at least one foundation elective (minimum 2 credits) in Semester I.

M.Sc. Psychology (Semester I& II) (Session 2019–2020)

| Sem.I | Course Code | Nomenclature of the Course | Contact Hour | | | Credit | Max. Marks | | | |
|---|-------------|--|---------------|------|--------|--------|------------|----|--------|-----------|
| | | | Th | Tut | Pract | | Th. | IA | Pract. | Total |
| Core Courses | PSY-101 | Historical and Theoretical Foundations of Psychology | 4 | 0 | 0 | 4 | 80 | 20 | | 100 |
| | PSY-102 | Experimental Psychology | 4 | 0 | 0 | 4 | 80 | 20 | | 100 |
| | PSY-103 | Social Psychology | 4 | 0 | 0 | 4 | 80 | 20 | | 100 |
| | PSY-104 | Research Methods and Statistics in Psychology | 4 | 0 | 0 | 4 | 80 | 20 | | 100 |
| | PSY-105 | Practicals | | 0 | 18 | 9 | | | 100 | 100 |
| | PSY-106 | Computer Applications in Psychology | 3 | | 2 | 4 | 60 | | 40 | 100 |
| | PSY-107 | Seminar | | | | 1 | | | | 25 |
| | PSY-108 | Self Study Paper | | | | 1 | | | | 25 |
| | | Foundation Elective Course | | | | 2 | | | | 50 |
| | | Total | 19 | | 20 | | | | | 700 |
| Total Credits : C=29; Foundation Elective Course: 2; Seminar: 1; Self study paper:1= | | | | | | | | | | 33 |
| Total Hours | | | | | | | | | | 39 |
| Sem II | Course Code | Nomenclature of the Course | Contact Hours | | | Credit | Max. Marks | | | |
| | | | Th | Tut. | Pract. | | Th. | IA | Pract | Total |
| Core courses | PSY-201 | Biopsychology | 4 | 0 | 0 | 4 | 80 | 20 | | 100 |
| | PSY-202 | Cognitive Psychology | 4 | 0 | 0 | 4 | 80 | 20 | | 100 |
| | PSY-203 | Developmental Psychology | 4 | 0 | 0 | 4 | 80 | 20 | | 100 |
| | PSY-204 | Research Designs and Statistics | 4 | 0 | 0 | 4 | 80 | 20 | | 100 |
| | PSY-205 | Practicals | | 0 | 18 | 9 | | | 100 | 100 |
| | PSY-206 | Psychological Perspectives to Environmental Issues | 3 | | | 3 | 40 | | 10 | 50 |
| | PSY2-07 | Seminar | | | | 1 | | | | 25 |
| | PSY2-08 | Self Study Paper | | | | 1 | | | | 25 |
| | | Total | 19 | | 18 | | | | | 600 |
| Total Credits: C= 28; Seminar:1 Self study paper:1 | | | | | | | | | | 30 |
| Total Hours | | | | | | | | | | 37 |

M.Sc. Psychology (Semester III & IV)

(Session 2020–2021)

In Semester III, there would be three core courses (two theory papers and a practical) and two Discipline Centric Elective courses. In Semester IV there would be two core courses (one theory paper and one practical) and three Discipline Centric Elective courses, a seminar and self study paper presentation. Each student has to opt for the discipline specific papers from **one group only, i.e. 1: Clinical & Abnormal Psychology, 2: Guidance & Counselling; 3: Health Psychology** and undertake field work in the area of specialization. Each Student will opt for at least one open elective course (minimum 3 credits) in Semester III.

| Semester III | | | | | | | | | | |
|--|------------------------|--|---------------|-----|-------|--------|------------|----|--------|-----------|
| Nature of course | Course Code | Nomenclature of the Course | Contact Hours | | | Credit | Max. Marks | | | |
| | | | Th | Tut | Pract | | Th. | IA | Pract. | Total |
| CC | PSY-301 | Psychological Assessment | 4 | 0 | 0 | 4 | 80 | 20 | | 100 |
| CC | PSY-302 | Industrial and Organizational Psychology | 4 | 0 | 0 | 4 | 80 | 20 | | 100 |
| CC | PSY-303 | Psychology of Individual Differences | 4 | 0 | 0 | 4 | 80 | 20 | | 100 |
| CC | PSY-304 | Practicals | | 0 | 18 | 9 | - | - | | 100 |
| DCEC | PSY-305-A PSY-305-B | Positive Psychology Or School Psychology | 4 | 0 | 0 | 4 | 80 | 20 | | 100 |
| CC | PSY-306 | Stress and Anxiety Management | 3 | 0 | | 3 | 40 | 10 | | 50 |
| | PSY-307 | Seminar | - | - | - | 1 | - | - | | 25 |
| | PSY-308 | Self Study Paper | - | - | - | 1 | - | - | | 25 |
| | | Open Elective Course / MOOCS Paper | | | | 3 | | | | 100 |
| | | Total | 19 | | 18 | | | | | 700 |
| Total Credits: C=24; DCEC= 3; Open Elective Course: 3; Seminar: 1; Self study paper:1 | | | | | | | | | | 33 |
| Total Hours | | | | | | | | | | 37 |

| Semester IV | | | | | | | | | | |
|-------------|---|---|---------------|------|--------|--------|------------|----|--|-------|
| | Course Code | Nomenclature of the Course | Contact Hours | | | Credit | Max. Marks | | | |
| | | | Th. | Tut. | Pract. | | Th. | IA | | Total |
| DCEC | PSY-401-A PSY-401-B | Psychoinformatics Cognitive Neuroscience | 4 | 0 | 0 | 4 | 80 | 20 | | 100 |
| DCEC | PSY-402-A PSY-402-B PSY-402-C | Basics of Clinical & Abnormal Psychology or Basics of Guidance and Counselling or Essentials of Health Psychology | 4 | 0 | 0 | 4 | 80 | 20 | | 100 |
| DCEC | PSY-403-A PSY-403-B | Psychodiagnostics or Processes and Skills of | 4 | 0 | 0 | 4 | 80 | 20 | | 100 |

| | | | | | | | | | | |
|--|-----------|--|-------|----|----|----|----|----|-----|-----|
| DCEC | PSY-403-C | Counselling or Management of Illness | | | | | | | | |
| | PSY-404-A | Interventions in Clinical Psychology | 4 | 0 | 0 | 4 | 80 | 20 | | 100 |
| | PSY-404-B | or Counselling Techniques and Strategies | | | | | | | | |
| | PSY-404-C | or Health Promotion | | | | | | | | |
| | PSY-405 | Practicals | 0 | 0 | 18 | 9 | | | 100 | 100 |
| | PSY-406 | Field Work in the area of Specialization | | | 2 | 4 | | | | 50 |
| | PSY-407 | Seminar | | | | 1 | | | | 25 |
| | PSY-408 | Self Study Paper | | | | 1 | | | | 25 |
| | | | Total | 16 | | 20 | | | | |
| Total Credits: C=9; DCEC: 16; Field Work= 4; Seminar: 1; Self study paper:1 | | | | | | | | | | 31 |
| Total Hours | | | | | | | | | | 36 |

Total Credits of Course: $33+30+33+31= 126$; **Total Hours:** $39+37+37+36=149$; **Total Marks:** 2600

M.A. Psychology (Semester-I)

Paper: PSY-101 HISTORICAL AND THEORETICAL FOUNDATIONS OF PSYCHOLOGY

Credits: 4 (Hrs/week: 4)

Total :100 marks

Internal Assessment: 20 marks

Examination : 80 marks; Time : 3 hours

Note: Nine questions would be set and candidates would be required to attempt five questions. There would be two questions (16 marks each) from each of the four units. Candidates would attempt one question from each unit. Unit V would comprise of Question No. IX, which would be compulsory. It shall be based on the entire syllabus and would contain eight short answer questions of two marks each.

Unit-I

Emergence of Psychology as Science of behaviour; Mind-Body-Behavior issue.
Schools of Psychology: Structuralism: contributions of Wundt and Titchener; Functionalism: Antecedents and Pioneers

Unit-II

Psychoanalysis: Freudian and Neo-Freudian : Horney, Fromm.
Individual Psychology: Adler; Analytical Psychology: Jung.

Unit-III

Behaviorism: Watson, Pavlov, Tolman, Hull.
Humanistic-Existential Approach : Rogers, Maslow.

Unit-IV

Theories of Intelligence: Thrustone, Guilford, Goleman.
Theories of Motivation and Emotion: Lewin, James- Lange, Cannon-Bard, Schachter and Singer

Recommended Books:

- Brenman, J. F. (2004). *History and Systems of Psychology* (6th Ed). Delhi. Pearson Pub.
Goleman, D. (1996) *Emotional Intelligence*, New York. Bantan Books.
Hall, C & Lindzey, G. (1978). *Theories of Personality*, New York: John Willey & Sons.
Hillgard, E.R. & Bower, G.H. (1975). *Theories of Learning*. New Jersey; Prentice Hall
Leahey, T.H. (1987). *A History of Psychology*, U.S.A.: Prentice Hall International.
Schultz, D. and Schultz, S. (2000). *A History of Modern Psychology*. U.S.A.: Harcourt Brace & Co.
Shiraev, E. (2015). *A History of Psychology- A Global Perspective*. New Delhi. SAGE Publication Ltd.
Singh, A.k. (2013). *The comprehensive History of Psychology* (6th ed) .New Delhi: MLBD.
Viney, W. & King, D. (1998) *History of Psychology*. Boston: Allyn and Bacon.

Paper:PSY-102 EXPERIMENTAL PSYCHOLOGY

Credits: 4 (Hrs/week: 4)

Total :100 marks

Internal Assessment: 20 marks

Examination : 80 marks ; Time : 3 hours

Note: *Nine questions would be set and candidates would be required to attempt five questions. There would be two questions (16 marks each) from each of the four units. Candidates would attempt one question from each unit. Unit V would comprise of Question No. IX , which would be compulsory. It shall be based on the entire syllabus and would contain eight short answer questions of two marks each.*

UNIT I

Perceptual Processes: Perception of Size and Movement: Depth Cues, Size Constancy and Illusions; Perception of Real movement, Types of Apparent Movement.

Pattern Recognition: Prototype, Feature and Structural approach.

UNIT II

Psychophysics: Estimating Sensory Threshold: Classical Methods.

Signal Detection Theory: Assumptions, Procedures and Applications.

Subliminal Perception: Nature and Empirical Evidence.

UNIT III

Conditioning: Classical Conditioning: Measurement of Conditioned Response; Variables affecting Classical Conditioning; Applications: Conditioned Emotional Response, Taste Aversion.

Instrumental and Operant Conditioning: Appetitive and Aversive; Schedules of Reinforcement; Applications: Shaping and Superstitious Behaviour.

UNIT IV

Verbal Learning: Methods, Organizational Processes; Improving Memory: Imagery and verbal mnemonics, Preparing for Examination.

Memory: Memory Codes and Attributes; Factors affecting forgetting.

Recommended Books:

Anderson, D.C., & Borkowski, J.G. (1978). *Experimental Psychology: Research Tactics and their Applications*. Illinois: Scott foreman.

Baddeley, A., Eysenck, M.W., & Anderson, M.C.(2015). *Memory*. New York: Psychology Press.
Chance,P.(1988). *Learning and Behaviour*. California: Wadsworth.

D'Amato, M.R. (1979). *Experimental Psychology: Methodology Psychophysics and Learning*. New Delhi: Tata McGraw Hill.

Goldstein, B.E. (2002). *Sensation and Perception*. USA: Wadsworth.

Kling, J.W., & Riggs, L.A. (1984). *Woodworth & Schlosberg's Experimental Psychology*. New Delhi: Khosla.

Schwartz, B.L., & Krantz, J. H. (2016). *Sensation & Perception*. Los Angeles, CA: Sage.

Paper: PSY-103

SOCIAL PSYCHOLOGY

Credits: 4 (Hrs/week: 4)

Total :100 marks

Internal Assessment: 20 marks

Examination : 80 marks; Time : 3 hours

Note: *Nine questions would be set and candidates would be required to attempt five questions. There would be two questions (16 marks each) from each of the four units. Candidates would attempt one question from each unit. Unit V would comprise of Question No. IX , which would be compulsory. It shall be based on the entire syllabus and would contain eight short answer questions of two marks each.*

UNIT- I

Introducing Social Psychology: Social Psychology: Nature, Origins and Development; Subject matter: Social Psychology yesterday and today.

Methods in Social Psychology: Experimental, Observation, Co-relational, Survey, Field study, Cross-Cultural, Sociometry

UNIT II

Understanding Social World: Social Perception: Impression Formation and Management; Attribution Theories and Attribution Biases.

Social Cognition: Social Schema & its impact; Heuristics, Prototypes and Social Representations.

UNIT III

Influencing others: Attitude: Nature, Formation, Measurement and Attitude Change: Persuasion and Cognitive Dissonance.

Social Influence: Unintended Social Influence, Conformity: Asch and Sherif's approach; Compliance: Principles and Tactics; Obedience and Disobedience.

UNIT IV

Social Processes: Co-operation and Conflict: Social exchange theory; Factors affecting conflict, Inter group Conflict and Resolution techniques.

Aggression: Nature and Theories: Biological, Social learning and cognitive; Causes of aggression: Social and personal; Techniques and Prevention to control aggression.

Recommended Books:

Alcock,J., & Sadava,S.(2014).*An Introduction to School Psychology:Global Perspectives*. New Delhi:Sage Publication.

Baron,R.A.,& Byrne,D.(2004).*Social Psychology*. Singapore: Pearson Education.

Baron,R.A.,Byrne,D.& Johnson,B.T.(1998).*Exploring Social Psychology*. USA:Allyn and Bacon.

Myers,D.G.,Sahajpal,P.& Behera,P.(2012).*Social Psychology*. New Delhi:Tata McGraw-Hill.

Worchel,S.,Cooper,J.,Goethals,G.R.,& Olsons,J.M.(2000).*Social Psychology*. USA: Wadsworth/Thomson.

Paper: PSY-104 RESEARCH METHODS AND STATISTICS IN PSYCHOLOGY

Credits: 4 (Hrs/week: 4)

Total :100 marks

Internal Assessment: 20 marks

Examination : 80 marks; Time : 3 hours

Note: *Nine questions would be set and candidates would be required to attempt five questions. There would be two questions (16 marks each) from each of the four units. Candidates would attempt one question from each unit. Unit V would comprise of Question No. IX , which would be compulsory. It shall be based on the entire syllabus and would contain eight short answer questions of two marks each.*

Candidates would be allowed to use non-programmable calculators and statistical tables during the examination.

UNIT I

Methods of Enquiry; Scientific Approach; Research: Nature and Types.

Problem and Hypothesis: Research Problem: Characteristics, Formulation and Sources ;

Hypothesis: Nature, Characteristics, Types and formulation

Variables: Types, Control of relevant variables.

UNIT II

Methods of Psychological Research: Experimental; Observation; Interview; Case Study and Questionnaire.

Normal Probability Curve (NPC): Nature; Characteristics; Applications (Area under NPC) and Measuring Divergence (Skewness & Kurtosis)

UNIT III

Sampling Procedures: Probability and Non-Probability Techniques.

Correlation Methods: Pearson Product Moment; Spearman Rank-order; Kendall Rank Correlation; Biserial and Tetrachoric.

UNIT IV

Special Correlation Methods: Partial Correlation (First order); Multiple Correlation (Three Variables) and Kendall Method of concordance.

Research Ethics and Report Writing Styles.

Recommended Books:

Bordens, K.S. & Abbott, B.B.(2006).*Research and Design Methods: A Process approach.* (6th Ed.), New Delhi: Tata Mc Graw Hill.

Garrett, H.E.(2005-12th Indian Reprint) *Statistics in Psychology and Education.* Delhi: Paragon International Publishers.

Haslam, S.A. & Mc Garty., C. (2014). *Research Methods Statistics in Psychology.* (2nd Ed.) New Delhi;Sage.

Helode, R.D. (2012). *Basic of Research in Behavioural Sciences.* Wardha; Psychoscan.

Mangal, S.K. and Mangal, S.(2013). *Research Methodology in Behavioural Sciences.* Delhi; PHI Learning Private Limited.

Mc Bride, D.M.(2013). *The Process of Research in Psychology.* (2nd Ed.) New Delhi; Sage.

Milluwi, J.O. and Rashid, H (2015) *Research Methodology: Principals Methods and Practices*. Delhi; Manglam.

Mohanty, B. and Misra, S. (2016). *Statistics for Behavioural and Social Sciences*, New Delhi: Sage.

Nestor, P.G. and Schutt, R.K. (2012) . *Research Methods in Psychology: Investigating Human Behavior*. New Delhi :Sage .

Shaughnersy, J.J., Zechmeister, E.B.& Zechmeister, J.S.(2000). *Research Methods in Psychology*.(5th Ed.)New Delhi:McGraw Hill.

Siegel, S. (1994) *Non-Parametric Statistics*. New York: McGraw Hill.

Singh, A.K. (2011). *Tests, Measurements and Research Methods in Behavioural Sciences*. New Delhi: Bharati Bhawan (Publishers & Distributors).

Singh, R. and Radheshyam & Gupta,L. (2015). *Fundamental Statistics For Social Sciences*. Rohtak: Intellectual Foundation(India).

Weathington, B.L., Cunningham, C.J.L. & Pittenger, D.J. (2010). *Research Methods for the Behavioural and Social Sciences*. New Jersey: John Wiley.

Paper: PSY-105

PRACTICALS

Credits : 9(Hrs / week: 18/group)

Maximum Marks : 100

Examination Time : 4 hrs

Note:

Each student would perform six experiments and six tests from the areas mentioned below. The list of exact problems would be decided by the concerned teachers. It would be mandatory for each student to submit a record file containing a report of all tests and experiments duly signed by the respective teachers. During examination one experiment and one test would be conducted. Evaluation would be based on performance in conduct, written and viva.

a) Experiments

(50 marks)

Any six experiments from following areas.

1. Perception
2. Conditioning
3. Memory
4. Forgetting
5. Social Conformity
6. Psychophysics
7. Ethological observation

b) Tests

(35 marks)

Any six tests from following areas.

1. Self
2. Intelligence
3. Sociometry
4. Attitude
5. Aggression
6. Personality (objective)

Paper: PSY-106

Computer Applications in Psychology Theory

Credits: 3 (Hrs/week: 3)

Total :60 marks

Examination : 60 marks; Time : 3 hours

Note: *Seven questions would be set and candidates would be required to attempt four questions. There would be two questions(of six marks each) from each of the three units. Candidates would attempt one question from each unit. Unit V would comprise of Question No. VII , which would be compulsory. It shall be based on the entire syllabus and would contain seven short answer questions of one marks each.*

Unit-I

Computer System as Information Processing System; Hardware options: CPU, Input devices, Output devices and Storage devices; PC as a virtual office.

Modern Information Technology: Basic idea of Local Area Networks (LAN), Wide Area Network (WAN), E-mail, Internet Technologies, Concept of world wide web and Internet browsing.

Unit-II

MS Office- Introduction to MS WORD, Word basic commands, Introduction to mail merge; Introduction to Excel, Working with Excel- Formatting, Working with graphics in excel; Introduction to Power Point: Power Point basics, working with graphics in Power Point.

Unit-III

Introduction to Statistical Packages: Usage of SPSS for Descriptive statistics, Graphical representation, Central tendencies and Variability, and Correlation,

Suggested Readings:

Lambert, J.,& Cox, J. (2010). *Microsoft Office Professional 2010 step by step*.USA:Microsoft Press, Rajaraman, V.(2013). *Fundamental of Computers*. PHI Learning Pvt. Ltd.
Sinha,P.K., & Sinha, P.(2010). *Computer Fundamentals*. BPB Publications

Practical

Credits: 1 (2hrs/week)

Marks: 40

Note:

Each student would gain proficiency in the following computer applications.It would be mandatory for each student to submit a record file containing a report of all the computer applications duly signed by the respective teachers. During examination one application would be performed.. Evaluation would be based on performance in conduct, written and viva.

1. Layout of Data-Sheet/Data-Entry in SPSS.
2. Central Tendencies
3. Variability
4. Correlation
5. Graphical representation
6. PPT on any topic related to syllabus.

Semester II

Paper: PSY-201

BIOLOGICAL BASES OF BEHAVIOUR

Credits: 4 (Hrs/week: 4)
marks
: 3 hours

Total :100 marks
Internal Assessment: 20
Examination : 80 marks; Time

Note: *Nine questions would be set and candidates would be required to attempt five questions. There would be two questions (16 marks each) from each of the four units. Candidates would attempt one question from each unit. Unit V would comprise of Question No. IX , which would be compulsory. It shall be based on the entire syllabus and would contain eight short answer questions of two marks each.*

UNIT I

Nature of Biopsychology: Meaning and approach; Major divisions of Biopsychology; Methods of study and research.

Cells of Nervous system: Neuron: Structure and Types; Conduction of Nerve Impulse; Synapse; Synaptic transmission: Process and stages

UNIT II

Nervous System: Central Nervous System: Structure and Function of Brain and Spinal cord.

Peripheral Nervous System: Somatic Nervous System: Cranial and Spinal nerves. Autonomic Nervous System: Sympathetic and Parasympathetic Nervous System.

UNIT III

Behavioural Genetics: Medalian Genetics, chromosomes, sex-linked and sex-limited genes.

Biological basis of Affector and Effector : Visual system, Auditory system; Motor system and Endocrine glands

UNIT IV

Biological basis of Ingestive Behaviour: Hunger and Thirst

Biological basis of Sleep: Stages and Types of Sleep; Physiological mechanism of Sleep; Disorders of Sleep.

Recommended Books:

Carlson, N. R. (2013). *Physiological of Behaviour*. USA: Pearson.

Kalat, J.N. (2016). *Biological Psychology*. Boston, USA: Cengage Learning.

Levinthal, C.R. (1991). *Introduction to Physiological Psychology*. New Jersey: Prentice Hall

Pinel, P.J. (2009). *Biopsychology*. (International edition). New Delhi: Pearson Education

Paper: PSY-202

COGNITIVE PSYCHOLOGY

Credits: 4 (Hrs/week: 4)

Total :100 marks

Internal Assessment: 20 marks

Examination : 80 marks ; Time : 3 hours

Note: *Nine questions would be set and candidates would be required to attempt five questions. There would be two questions (16 marks each) from each of the four units. Candidates would attempt one question from each unit. Unit V would comprise of Question No. IX , which would be compulsory. It shall be based on the entire syllabus and would contain eight short answer questions of two marks each.*

UNIT I

Introduction: Emergence of Cognitive Psychology, Information Processing Approach.

Attention: Filter (Broadbent and Treisman) and Resource (Kahnman) Theories; Factors affecting Division of Attention.

UNIT II

Memory: Working Memory: Nature, Theories, Educational Applications.

Semantic and Episodic Memory: Semantic vs Episodic Memory; Level of Processing and Hierarchical Network model.

Prospective Memory: Types and Common Failures of Prospective Memory in Everyday life.

UNIT III

Imagery : Empirical Investigations: Mental Rotation and Scanning; Analogical and Propositional Theory.

Language: Speech Recognition: Phonology, Morphology, Syntax and Parsing.

Speech Production: Theories:Garrett and Dell ; Speech Errors.

UNIT IV

Problem Solving: Strategies of Problem Solving; Blocks in Problem Solving; Finding Creative Solutions.

Cognition in Cross Cultural Perspective: Cross Cultural Studies of Perception, Memory and Categorization.

Recommended Books:

Eysenck, W. M., & Keane, M.T. (1990). *Cognitive Psychology: A Students Handbook*. London : Lawrence Erlbaum.

Galotti, K.M. (2014).*Cognitive Psychology: In and Out of the Laboratory*. New Delhi: Sage.

Riegler, B.R., & Riegler, G.L.R. (2008). *Cognitive Psychology: Applying the Science of the Mind*. India: Pearson Education.

Jahnke, J.C., & Nowaczyk, R.H. (1998).*Cognitive Psychology*. NewJersey: Prentice Hall.

Matlin, M. W. (1995). *Cognition*. Bangalore: Prism Book.

Reed, K.S. (2000).*Cognition: Theory and Applications*. California: Wadsworth.

Paper: PSY-203

Credits: 4 (Hrs/week: 4)

Developmental Psychology

Total :100 marks

Internal Assessment: 20 marks

Examination : 80 marks ; Time : 3 hours

Note: Nine questions would be set and candidates would be required to attempt five questions. There would be two questions (16 marks each) from each of the four units. Candidates would attempt one question from each unit. Unit V would comprise of Question No. IX, which would be compulsory. It shall be based on the entire syllabus and would contain eight short answer questions of two marks each.

UNIT-I

Human development- concept and principles. Factors affecting development : biological, social and cultural.

Prenatal development- development from conception to birth, factors and risks.

Neonate- characteristics, reflex, assessment.

UNIT-II

Infancy- sensory-motor, cognitive-language and psychosocial development.

Childhood- emotional, cognitive & language, psychosocial development: role of family, sibling, peers, school.

UNIT-III

Adolescence- physical changes, relationships with peers and family. Identity formation.

Problems during adolescence.

Adulthood- intimate relationship, vocational adjustment, parenthood

Aging- physical conditions, personal relationships, financial and emotional problems.

UNIT-IV

Theories and approaches of development- Erikson, Piaget (moral and cognitive),

Bronfenbrenner, Kohlberg.

Recommended Books:

Bee, H., & Boyd, D. (2002). *Life Span Development*. Boston, M.A: Allyn and Bacon.

Berk, L.E. (2003). *Child Development*. New Delhi: Pearson Education.

Bukatko, D., & Daehler, M.W. (2001). *Child Development: A Thematic Approach*. New York: Houghton Mifflin Company.

Birren, J.E., & Schai, K.W. (1990). *Handbook of the Psychology of Aging*. New York: Academic Press.

Cunningham, W.R., & Brookbank, J.W. (1988). *Gerontology: The Psychology, Biology and Sociology of Aging*. London: Harper and Row, Publishers.

Crain, W. (1980). *Theories of Development*. Englewood Cliffs, New Jersey: Prentice Hall.

Hetherington, M.E., & Parke, R.D. (1993). *Child Psychology: A Contemporary Viewpoint*. New York: McGraw Hill.

Morgan, L., & Kunkel, S. (1998). *Aging: The Social Context*. London: Pine Forge Press.

Newman, B.M., & Newman, P.R. (1999). *Development Through Life: A Psychosocial Approach*. New York: Wadsworth Publishing Company.

Santrock, J.W. (2006). *A Topical Approach to Life Span Development*. New Delhi: Tata McGraw Hill.

Paper: PSY-204 RESEARCH DESIGNS AND STATISTICS IN PSYCHOLOGY

Credits: 4 (Hrs/week: 4)

Total :100 marks

Internal Assessment: 20 marks

Examination : 80 marks; Time : 3 hours

Note: *Nine questions would be set and candidates would be required to attempt five questions. There would be two questions (16 marks each) from each of the four units. Candidates would attempt one question from each unit. Unit V would comprise of Question No. IX , which would be compulsory. It shall be based on the entire syllabus and would contain eight short answer questions of two marks each.*

Candidates would be allowed to use non-programmable calculators and statistical tables during the examination.

UNIT I

Measurement: Nature, History, Functions and Levels. General Problems and Sources of Errors in Measurement.

Research Designs: Nature, Characteristics, Types and Functions.

UNIT II

Experimental Designs: Between Subjects Designs; Within Groups Designs and Mixed Designs.

Significance of Mean Difference: Independent and Dependent Groups.

Analysis of Variance: One way and Two way ANOVA for Separate Groups.

UNIT III

Quasi Experimental Designs: One Group Designs; Non-Equivalent Groups Designs and Time Series Designs.

Non-Parametric Statistics: Mann-Whitney U-Test; Wilcoxon Matched Paired Test; Chi-Square; A-Test and Kruskal Wallis H-Test.

UNIT IV

Qualitative Research: Qualitative versus Quantitative Research. Qualitative Data: Nature and Types. Approaches for Qualitative Data Analysis.

Mixing Methods: Quantitative and Qualitative Combined; Qualitative and Mixed-Methods Data Collection and Analysis; Benefits and Challenges of Mixed-Methods Research.

Recommended Books:

Bordens, K.S. & Abbott, B.B.(2006). *Research and Design Methods: A Process approach.* (6th Ed.), New Delhi: Tata Mc Graw Hill.

Garrett, H.E.(2005-12th Indian Reprint) *Statistics in Psychology and Education.* Delhi: Paragon International Publishers.

Haslam, S.A. & Mc Garty., C. (2014). *Research Methods Statistics in Psychology.* (2nd Ed.) New Delhi;Sage .

Helode, R.D. (2012). *Basic of Research in Behavioural Sciences.* Wardha; Psychoscan.

Mangal, S.K. and Mangal, S.(2013). *Research Methodology in Behavioural Sciences*. Delhi; PHI Learning Private Limited.

Mc Bride, D.M.(2013). *The Process of Research in Psychology*. (2nd Ed.) New Delhi; Sage.

Milluwi, J.O. and Rashid,H (2015) *Research Methodology: Principals Methods and Practices*. Delhi; Manglam.

Mohanty, B. and Misra, S. (2016). *Statistics for Behavioural and Social Sciences*, New Delhi: Sage.

Nestor, P.G. and Schutt, R.K. (2012) . *Research Methods in Psychology: Investigating Human Behavior*. New Delhi :Sage .

Shaughnersy, J.J., Zechmeister, E.B.,& Zechmeister, J.S.(2000). *Research Methods in Psychology*. (5th Ed.)New Delhi: Mc Graw Hill.

Siegel, S. (1994)_*Non-Parametric Statistics*. New York: McGraw Hill.

Singh, A.K.(2011). *Tests, Measurements and Research Methods in Behavioural Sciences*. New Delhi: Bharaqti Bhawan (Publishers & Distributors)

Singh, R. and Radheshyam & Gupta,L. (2015)._*Fundamental Statistics For Social Sciences*. Rohtak : Intellectual Foundation(India).

Weathington, B.L., Cunningham, C.J.L. & Pittenger, D.J. (2010). *Research Methods for the Behavioural and Social Sciences*. New Jersey: John Wiley.

Credits:9 (Hrs/week: 18)

Maximum Marks : 100

Examination Time : 4 hours

Note:

Each student would perform Six experiments and Six tests from Section A and prepare profiles of six tests/ instruments. The list of exact problems would be decided by the concerned teachers. It would be mandatory for each student to submit a record file containing a report of all tests and experiments duly signed by the respective teachers. During examination one experiment, one test would be conducted and one profile would be reported. Evaluation would be based on performance in conduct, written and viva.

Section A

(Marks: 80)

(i) Experiments

1. Attention
2. Language
3. Memory
4. Problem Solving
5. Physiological Arousal
6. Motor performance

(ii) Tests

1. Motivation
2. Anger /Agression
3. Personality (Subjective)
4. Memory
5. Family relations/ Social maturity
6. Heath

Section B

Profiling of Instruments/Tests

(Marks: 20)

Six profiles of Instruments/Tests (at least three instruments) to be prepared. Details of instrument/test and its working/administration, scoring, interpretation, and application would be described.

Paper: PSY-206 Psychological Perspectives to Environmental Issues

Credits: 3 (Hrs/week: 3)

Total :50 marks

Internal Assessment: 10 marks

Examination : 40 marks; Time : 2 hours

Note: *Seven questions would be set and candidates would be required to attempt four questions. There would be two questions(of 10 marks each) from each of the three units. Candidates would attempt one question from each unit. Unit V would comprise of Question No. VII , which would be compulsory. It shall be based on the entire syllabus and would contain five short answer questions of two marks each.*

UNIT I

Nature and Scope of Environmental Psychology.

Theories of Environment-Behaviour Relationship: Arousal, Stimulus-Load, Behaviour-Constraint, Ecological, Environmental–Stress Theory.

UNIT II

Environmental Stress: Nature and Characteristics. Types of Environmental Stress: Natural Disasters, Technological Catastrophe, Noise and Air-pollution
Personal Space: Functions, methods and determinants of Personal Space; Personal Space in a digital Age.

UNIT III

Changing Behaviour to save the Environment: Environmental Education, Reinforcement techniques, Challenge of increasing Proenvironmental Behaviour.
Economic, Political and Legal Implications of Environmental Issues.

Recommended Books:

Bechtel, R. B. (1997). *Environment and Behaviour: An Introduction*. New Delhi: Sage.

Bechtel, R. B., & Churchman, A. (2002). *Handbook of Environmental Psychology*. New York: John Wiley

Bell, P. A., Greene, T. C., Fisher, J. D., & Baum, A. (2001). *Environmental Psychology* Orlando (US): Harcourt.

Gifford, R. (1991). *Environmental Psychology; principles and practice*. USA: Allyn. Bacon.

Veitch, R., & Arkkelin, D. (1995). *Environmental Psychology: An Interdisciplinary Perspective*. USA: Practice-Hall.