

Department of Psychology

Syllabus for PhD Entrance 2022

SEC- A RESEARCH

RESEARCH METHODS AND STATISTICS IN PSYCHOLOGY

Parametric Vs Non-Parametric Statistics. Scales of Measurement, Tests of Significance: t-test, z-test, chi-square test. Correlation: Nature, assumptions and types: Pearson's product Moment Method Spearman's Rank order correlation. Biserial, Point-Biserial, Tetrachoric and Phi-co-efficient methods. Partial and Multiple correlation (Three Variables). Simple and Multiple Regression (Three Variables). Factor Analysis: Nature and Basic Assumptions, Principal Axis, Principal Component and Centroid methods, Rotation, Problems of factor analysis.

Types of Research: Naturalistic observation, Experimental and Correlational research, Field Studies, Survey Research, Ex-post Facto research. Quasi-Experimental Designs and Single Subject Designs Nature and Assumptions of ANOVA. Randomized Group and Randomized Block Designs, Latin Square. **Factorial Designs:** Two way and three way ANOVA **Multiple Comparison tests:** Duncan's and Newmankeuls Tests. ANCOVA of Randomized Group Design.

Tests: Nature and types of Psychological tests. Test construction and standardization: Item writing, Item Analysis, Item difficulty and Item Discrimination. **Reliability:** Nature and types, Factors influencing reliability of test, Reliability of speed tests. **Validity:** Nature and Types, Factors influencing validity of test **Norms:** Nature and types (Age norms, grade norms, percentiles, standard scores) **Attitude Scales:** Bogardus, Thurstone, Guttman and Likert Ethical issues in testing.

Scientific Research: Meaning, Stages of research, Types of research : Observation, Experimental and Correlational research. **Sampling:** Concept and Types. **Cross Cultural Research:** Types- Emic and Etic Strategies. **Qualitative Research:** Nature and methods: Phenomenology, Ethnography, Grounded theory and Focused groups. **Sociometry:** Concept, Method of analysis. **Interview:** Nature and types of Interview.

SECTION- B-SUBJECTIVE

SYSTEMS OF PSYCHOLOGY

Structuralism & Functionalism: Basic postulates & their contributions to the emergence of psychology as a science. **Behaviorism & Gestalt Psychology:** Basic Postulates & their contributions to Psychology. **Psychoanalysis:** Postulates and Contribution (Freud, Adler and Jung) **Humanistic Psychology:** Postulates & Contributions. Phenomenological and Existential perspectives in Psychology.

SOCIAL PSYCHOLOGY AND ITS APPLICATIONS

Social Psychology: Nature and Research Methods. Social Psychology in the New Millennium: Evolutionary, Multi-cultural and Cognitive Perspective. Nature of Groups . Major Group Processes: Social Facilitation, Social Loafing, Deindividuation. Theories of Social Psychology: Social Consistency (Cognitive Dissonance Theory, Balance Theory), Social Exchange Theory, Attribution Theory (Kelley, Jones & Davis, Weiner). Social Influence Processes: Altruism: Nature & Theoretical Perspectives. Interpersonal Attraction: Concept & Theoretical Perspectives. Aggression: Nature & Theoretical Perspectives.

PHYSIOLOGICAL PSYCHOLOGY

Physiological Psychology: Nature. **Research Methods:** Stimulation, Ablation, Behavioural & Neuropsychological Testing: **Neuron:** Types & Functions. **Central Nervous System and Peripheral Nervous System:** Structure & Functions. **Endocrine Glands:** Characteristics, Types and Functions.

COGNITIVE PROCESSES

Cognitive Psychology: Nature, Domains of Cognitive Psychology: Cognitive neuroscience, Pattern Recognition, Artificial Intelligence and consciousness Attention: Characteristics, Models. Perception: Nature, Determinants, Perceptual Organization, Perceptual Constancy. Memory: Types and Models.

Forgetting: Nature and Theories. Thinking: Types, Tools, Problem Solving: Strategies & Factors. Concept Formation: Nature, Types, Factors. Reasoning: Types and Errors. Intelligence: Theories and Assessment

ENVIRONMENTAL PSYCHOLOGY

Environmental Psychology-Nature and Scope Theoretical Perspective: Brunswik, Gibson, Barker, Brofenbrenner. Personal Space: Nature and Theories. Territoriality: Theories and Measurement. Environmental Problems with reference to India: Population density, Pollution: Noise, air and water Environment and Role of Psychologist in environment management

PERSONALITY THEORIES AND ASSESSMENT

Personality : Concept, Assumptions concerning Human Nature. Nature of Personality Theory. **Psychoanalytic Theory and Post Freudian developments** : Freud, Jung, Adler, Fromm, Erikson. **Trait Theories** : Allport, Cattell, Eysenck, Big Five Model. **Socio Learning Theory** : Bandura **Cognitive Theory** : Kelley's Personal-Construct Theory **Humanistic Phenomenological Perspective** : Rogers, Maslow **Personality Assessment** : Foundations, Assumptions.

Clinical versus Statistical Prediction **Psychometric Tests** : MMPI, CPI, EPI, Cattell's 16 PF, NEO Five factor Inventory **Projective Tests** : Rorschach Inkblot technique, TAT, Word Association Test, Sentence Completion Test **Testing of Cultural and Linguistic Minorities Ethical Issues in Testing**