

## **PAPER - 1**

### **Cognitive Psychology and Academic Achievement**

#### **Unit 1: Cognitive Psychology**

History of Cognitive Psychology - Mechanism - Psycho Physics - Consciousness and Qualities of Mind – Study of Psychology: Structuralism – Functionalism – Behaviourism - Other Contributors: Linguistics - Information Processing – Cognitive Neuroscience.

#### **Unit II: Cognitive Process and Cognitive Self management**

Thinking – Basic elements of Thought: Concepts – Proposition - Images. Reasoning: Transforming Information to reach conclusions. Problem – Solving finding paths to desired goals. Attention: Theories of Attention – Perception: Theories of Perception - Concept Formation: Piaget - Bruner and Gagne Studies from the development point of view with special emphasis on adolescence- early- selection Filter Theories – Late selection filter model - Capacity models of attention - Automatic processing.

#### **Unit III: Short Term and Long Term Memory**

Modal of Memory - Characteristic of Short - Term Memory : Capacity of Short Term Memory- Evidence for Short – Term Memory - Serial Position Effect - Amnesia - Individual differences in Working Memory - Material induced Organization - Subjective Organization - Memory for Personality relevant information – Self – Generation Effect in Memory - Long Term Memory: Imagery and Memory - Dual Code Theory - Mnemonic Techniques: Method of loci - Peg Word Technique - Key Word Technique - Organizational Technique.

#### **Unit IV: Cognitive Empathy**

Empathy: Meaning - Definition - Cognitive Empathy: Meaning - Definition - Nature- Teaching Empathy - Kinds of Empathy - Activities to promote Cognitive Empathy - Educational Activities on Cognitive Empathy - Character Educational Activities on Cognitive Empathy - Activities to build Empathy in Adolescents.

#### **Unit V: Social Maturity and Academic Achievement**

Social Maturity - Erikson's stage of Social Development Emotional Development - Emotional Control and Maturity – Formation of Cognitive Learning – Process of Cognitive Structure - Learning as a Cognitive Process - META Cognitive Process - Cognitive Self Management - Higher Secondary Education- Concept of Academic Achievement - Factors affecting Academic Achievement - Social Development – Factors of Social Development.

**References:**

1. B.Kuppuswamy, 'Advanced Educational Psychology', Sterling Publications private Limited, New Delhi.
2. Charles. E. Skinner, 'Educational Psychology', Prentice – Hall of India Pvt. Ltd.
3. C.L.Kundu and T.N.Tuttoo < "Educational Psychology', Sterling Publications, New Delhi.
4. Richard D.Cross, 'Psychology (The Science of Mind and Behaviour)', British Library Cataloguing, Great Britain.

## **PAPER - 2**

### **Creativity and Intelligence**

#### **Unit I: Creativity**

Creativity – Meaning – Definition - Characteristic of creativity – Need and Significance - Steps in Creativity - Theories of Creativity – Relationship between Creativity and Divergent Thinking.

#### **Unit II: Tests of Creativity**

Importance of Creativity Test - Standardized Foreign Creativity Tests - Standardized Indian Creativity Tests - Verbal Tests - Non Verbal Tests - Measures to develop Creativity.

#### **Unit III: Intelligence**

Intelligence – Meaning- Definitions - Characteristics of Intelligence - Theories of Intelligence - H.Gardner's Multiple Intelligence Theory - Sternberg's Diarchic Intelligence Theory - Cattle's Cognitive Theory Intelligence - Fluid Intelligence - Crustallized Intelligence.

#### **Unit IV: Tests of Intelligence**

Types of Tests - Verbal Tests - Non-Verbal Tests - Performance Tests – Importance of Intelligence Tests - Intelligence Quotients - Wechsler Intelligence Tests - Uses of Intelligence - Difference between Creativity and Intelligence.

#### **Unit V: Relation between Education Technology, Creativity and Intelligence**

Educational Technology – Meaning- Definition - Relation between Educational Technology and Creativity - Relationship between Educational Technology and Intelligence - Uses of Educational Technology

#### **References:**

1. John.A.Glover, 'Educational Psychology (Principles and Applications), Litrary of Congress Cataloging – in – Pub. Data, U.S.A.
2. Herbert J.Klausmeier, 'Educational Psychology', Harper and Row Pub., Newyork.
3. M.Mukhopadhyay, 'Educational Technology', All India Association for Educational Technology, New Delhi.

## **PAPER - 3**

### **Study Skills**

#### **Unit I: Introduction of Study Skill**

Meaning and Definition - Concepts of Study Skills - Scope and Objectives of Study Skills - Advantages and Limitations of Study Skills – types of Study Skills.

#### **Unit II: Effective Study Skills**

Effective study skills understanding - Stage ones Intension – Organize time and Getting parental - teacher and institutional support - To improve as a visual auditory hands on learner developing effective study skills - Tips for effective study – Preparing to study : A good study infrastructural support - Six benefits of study groups – General tips for study and study skills Guides.

#### **Unit III: Strategies and Techniques of Study Skills**

Effective study strategies – The best study skills, five strategies one need to know and use – Reading – Writing – Thinking - Listening and speaking skill strategies – Note thinking - Note making – Independent study – Skill of student techniques – Memory - Motivation and time management – Cramming techniques for class and Exams

#### **Unit IV: Study Habit and Study Involvement**

Meaning and Definition – Need and Significance of study habit and Study Involvement – Scope of study habits – Defining a good study habits – Developing effective study habits – Ten great study habits and study methods – Tips to improve study and support to perform academically well.

#### **Unit V: School Environment**

Meaning and Definition – Need and Importance – Types of school environment – Essential attributes and characteristics of successful schools – Creating a safe school environment affect the emotional development in the adolescents – How school environment impacts student aggression – Ten tips to improve school environment

1. M.Dash, 'Fundamentals of Educational Psychology', Atlantic Pub. And Distributors, New Delhi.
2. Anuja Sabaja, ' Educational Environment', Mehra Offdset, New Delhi.
3. Louis Cohren and Lawrence Manion, ' A Guide to Teaching Practice', The Chaucer Press, Great Britain.

## **PAPER - 4**

### **Personality, Emotional Intelligence and Academic Achievement**

#### **Unit I: Personality**

Meaning – Definition – Characteristics – Types of Personality - Trait Theory - Allport Classification - Catells Classification - Guilfford Classification - Eyesenk's Classification – Determination of Personality.

#### **Unit II: Theories of Personality**

Psychoanalytic Theory – Adler's Individual Psychology - Analytic Psychology - Humanistic Psychology – Behaviouristic Theory.

#### **Unit III: Assessment**

Assessment of Person – Observation – Situational Performance Test - Interview Questionnaire – Personality Inventory - Case history - Psychoanalytic Projective Test – Types of Assessment.

#### **Unit IV: Intelligence and Assertiveness**

Types of Intelligence – Emotional – Social – Moral – IQ – EQ - Emotions – Emotional Intelligence - Measurement of Intelligence – Application of Emotional Intelligence – Assertiveness: Definition – Concept – Trait – Need and Scope – Applications of Assertiveness in Life situation.

#### **Unit V: Adjustment & Tolerance**

Adjustment – Definition – Needs and Goals in Adjustment – Methods of Adjustment – Dynamics of Psychological Adjustment of the Child – Symptoms of Chronic Maladjustment, Self Acceptance and Self Growth – Meaning and Nature of Tolerance – Importance of Tolerance Acceptance – Accommodation – Adjustment – Tolerance Inculcation of Tolerance among Students Measure –Academic Achievement – Factors affecting Academic Achievement.

#### **References:**

- 1. V.K.Tokli, A.M.Shandila, N.K.Mittal and R.B.Ghodgaonkar, ' Educational Technology for Higher Techniocal Education and Traininfg', Tata Mc Graw Hill Pvt. Ltd., New Delhi.**
- 2. Hans Oosthock and Ton Vroeijenstijn, ' Higher Education and New Technologies', Library of Congress Cataloging, Great Britain.**
- 3. K.L.Kumar, 'Educational Technology', New Age International Pub., New Delhi.**

## **PAPER - 5**

### **Learning and Anxiety**

#### **Unit I: Nature of Learning**

Meaning - Concept - Purpose of Learning – Types of Learning - Trial and Learning – Classical Conditioning – Operational Conditioning – Incite Learning – Gagne’s learning of Eight Types.

#### **Unit II: Theories of Learning**

Connectionist Theory – Thorndike’s Theory – Watson’s Theory – Skinner’s Theory – Hull’s Theory – Pavlov’s Theory – Guthrie’s Theory.

#### **Unit III: Learning Environment and Maturation**

Conductive Environment Infrastructure Support – Moral Support – Physical Support – Parental Support – Parental Involvement in Children’s Learning – Parental Support with reference to Higher Secondary Level Students High and Low Achievers – Need for Guidance and Counselling Support - Efficiency in Learning – Learning Process – Human Learning – Transfer of Learning.

#### **Unit IV: Learning and Teaching process**

Principles of Learning – Parents and Teachers in Educating the Student’s Motivation – Learning Methods – Part and Whole Methods – Techniques for Better Attention – Teaching and Learning Process of Indian Educational Philosophers.

#### **Unit V: Anxiety**

Meaning – Concepts – Need for Anxiety – Factors affecting Levels of Anxiety – Types of Anxiety – General Test and Social Anxiety – Strategies to encounters Academic Achievement Factors Influence - Relationship between Anxiety and Academic Achievement.

#### **References:**

1. Herbert J.Klausmeier, ‘Educational Psychology’, Harper and Row Pub., Newyork.
2. M.Mukhopadhyay, ‘Educational Technology’, All India Association for Educational Technology, New Delhi.
3. M.Dash, ‘Fundamentals of Educational Psychology’, Atlantic Pub. And Distributors, New Delhi.
4. Anuja Sabaja, ‘ Educational Environment’, Mehra Offdset, New Delhi.

## **PAPER – 6**

### **Inferiority Complex and Insecurity Feelings**

#### **Unit I: Introduction**

Personality – Meaning and Definitions of Personality – Concept of Personality – Personality Theories – Personality Development – Personality Traits – Personality Test

#### **Unit II: Personality**

Personality Quotes – Personality Structure - Assessing Human Personality – Factors Influencing Human Personality – Personality of a Teacher – Personality of a Person – Personality Disorder - Overcoming Personality Disorder.

#### **Unit III: Inferiority Complex**

Inferiority Complex: Meaning – Definitions – Inferiority Complex in Psychology – Inferiority Complex Theory – Inferiority Complex Origin – Inferiority Complex Test – Inferiority Complex Quotes – Inferiority Complex Symptoms – Inferiority Complex in Children – Twins – Teenagers – Men and Women Relationship and Indians.

#### **Unit IV: Techniques on Inferiority Complex**

Inferiority Complex Technique – Inferiority Complex Cure – Inferiority Complex of Freud – Inferiority Complex of Superiority Complex – Inferiority Complex and Ego - Self Esteem - Self Image – Inferiority Complex at Classroom - Inferiority Complex at Classroom - Inferiority Complex at Work - Inferiority Complex in Today's Society – Overcoming Inferiority Complex.

#### **Unit V: Insecurity Feelings**

Insecurity Feeling – Meaning of Insecure – Concept and Definitions of Insecurity Feeling – Insecurity Feeling Quotes - Insecurity Feeling Theory – Determinants of Insecurity Feeling – Overcoming Insecurity Feeling.

#### **References:**

1. John.A.Glover, 'Educational Psychology', Literary of Congress Cataloging – in – Pub. Data, U.S.A.
2. Herbert J.Klausmeier, 'Educational Psychology', Harper and Row Pub., Newyork.
3. M.Dash, 'Fundamentals of Educational Psychology', Atlantic Pub. And Distributors, New Delhi.

## **PAPER – 7**

### **Professional Education and Teachers**

#### **Unit I: Professional Education**

Meaning – Concept – Definition - Purpose – Aims of Professional Education – Features of Professional Education – Differentiate Para Professional Education from Professional Education

#### **Unit II: Professional Development of Teachers**

Attributes of Professional Education – Professionalism - Professional Ethics – Roles and Responsibilities of professionals – Types of Professional Education – Teaching – Medicine – Law - Engineering – Agriculture – Marine – IT

#### **Unit III: Teachers and Professional Growth**

Teaching Profession – Historical Perspective – Levels of Teacher Education – Professional Involvement – Commitment – Career Development – Growth of Professional Education in 21<sup>st</sup> century.

#### **Unit IV: Attitude and Perception**

Definition – Attitude - Nature and Characteristics of Attitude - Formation of Attitude – Definition – Perception - Characteristics of Perception of Teaching among the Student Teachers.

#### **Unit V: Attitude towards teaching profession**

Aspiration – Life Satisfaction – Professional Competency – Professional Efficiency among School Teachers – Professional Performance with respect to Higher Secondary Education – Professional Education for Life Development - Social and Economic Development - National Development.

#### **References:**

- 1. Dr.Rita Dawn and Dr.Kenneth Dunn, ‘ Teaching Students Through their individual Learning Styles – A Practical Approach’, Literary of Congress, U.S.A.**
- 2. Dr.Gulab, Prof. S.R.Rohidekar, Dr.Kirpal Singh and Dr.Dev Raj Vij, ‘The Teachers, Teacher Education and Professional Organisation of Teacher’, Council for Teacher Education, Bhopal.**
- 3. Alex Main, ‘Educational Staff Development’, Antony Rpw Ltd., Great Britain.**



## **PAPER – 8**

### **ICT in Education\*\*\***

#### **Unit I: Technology and Teaching**

Technology and Teaching – Integration of Both – Techno Pedagogy – Meaning and Definition – Various Forms – Applications in Higher Education – Technology Integrated in Teaching and Learning – Multimedia and Hypermedia in Education – Computer System – Parts – Functions – Mouse and Cursor – Touch Pad – Key Board – Special Keys – Basic Features of Windows – Scroll Bar - Menu Bar - Title Bar - Opening Program - Note Pad – File and Saving – Folders - Dialogue Box - Floppy and CD ROM - CD Drive – Coping and Burning – Electronic Infections – Internet LAN.

#### **Unit II: MS Office**

MS Word and Power Point: Creation of a Document - Use of Editing Facilities: Bold – Italics – Underline - Type of Font - Size of Font -Line Spacing – Margins – Paragraph - Spelling and Grammar - Insertion of File – Text – Objectives - Creating of Tables etc. - PowerPoint: Preparation of Slides - Slide Show – Preparation of Lesson Plans using MS-Word and Power Point - Use of Excel.

#### **Unit III: Web Based Instruction**

Web Based Instruction (WBI) – WWW Internet Explorer – Search Engines – Opening a Website on URL - Email – Web Based Teaching and Learning – Potentials and Constraints of ICT in Education – Teleconferencing – E-learning – E –book – INFLIBNET – E- Journals – Consortium of Educational Communication - EDUSAT.

#### **Unit IV: Satellite and Communication**

Satellite Based Communication – Selection of Appropriate Techniques – Mass Instruction and Individualized Instruction – Using of Games and Simulations – Offline – Online Resources – Computer Education and Occupational Information – ICT in Educational Research.

## **Unit – V: Smart Class and E Resources**

Introduction - Features of Smart class – Need - Effectiveness of Smart Class Room in Teaching - Challenges and Prospects in establishing Smart Class Room in Establishment and Execution with reference to Mathematics. E-Resources and Professional Development of Teachers – Using of E-resources – Conference Alerts – Professional Networking – E-Publication – E-Registration – E-Conferencing – Use of E-Resources: Teaching – Research - Consulting and Extension Activities.

### **References:**

1. V.K.Tokli, A.M.Shandila, N.K.Mittal and R.B.Ghodgaonkar, ‘ Educational Technology for Higher Techniocal Education and Traininfg’, Tata Mc Graw Hill Pvt. Ltd., New Delhi.
2. Hans Oosthock and Ton Vroeijenstijn, ‘ Higher Education and New Technologies’, Library of Congress Cataloging, Great Britain.
3. K.L.Kumar, ‘Educational Technology’, New Age International Pub., New Delhi.

***N.B.\*\*\*Those who have done ICT in Education at the M.Ed or M.Phil Level should not repeat this paper at Ph.D level.***

## **PAPER – 9 PARENTAL EDUCATION**

### **Unit – I Parental Education**

Meaning – Definition – Aims and Objectives – Importance of Parental Education – Role of Parental Education – Stages of Parental Education – Advantages of Parental Education – Characteristics of Parental Education – Gap between Rural and Urban Parental Education.

### **Unit – II Parents as a Mediator for the Development of Social Skills**

Introduction – Parent as a Mediator – Dimensions of Social Skills – Advantages and Disadvantages of involving Parents – Mediation Roles for Parents – Home Based Reinforcement Agent – Adjunct Trainer – Therapy Participant – Trainer Trainee – Independent Trainer.

### **Unit – III Parents Encouraging Children**

Introduction – Meaning – Definition of Parent Encouragement – Role of Parents Encouragement – Partnership and Co-operation with School – Advantages of Parental Encouragement towards Children – Characteristics of Parents Encouragement – Rewards and Punishments – Parent Teacher Association.

### **Unit – IV Parents Attitude towards Children**

Introduction – Meaning – Definition of Parents Attitude – Types of Parents Attitude – Characteristics of Parents Attitude – Classification of Attitudes – Family and Society – Preferences and Support Family and Government Support in Child's Education – Role of Teachers and Counsellors.

### **Unit – V Parents Involvement**

Meaning – Definition of Parents Involvement – Characteristics of Parent Involvement – Different Levels of Parents Involvement – Concept of Parental Involvement – Benefit of Parental Involvement – Education of Parents – Learning Situation - Guidance and Counselling for Parents.

### **References:**

1. A.K.Nayak, "Educational Psychology", APH Publishing Coeporation, New Delhi.
2. Michael A.Milan, "Handbook of Social Skills Training and Research", A Wiley Inter Science Pub., New York.
3. Sudha V.Rao, "Education and Rural Development",