

**PAPER-I: EDUCATION : PHILOSOPHICAL AND
SOCIOLOGICAL BASES**

Time: 3 Hours

Max. Marks: 100

NOTE FOR PAPER SETTER

- i) Paper setter will set 9 questions in all, out of which students will be required to attempt 5 questions.
- ii) Q. No. 1 will be compulsory and carries 20 marks. There will be 4 short-answer type questions of 5 marks each to be selected from the entire syllabus.
- iii) Two long answer type questions will be set from each of the four units, out of which the students will be required to attempt one question from each unit. Long-answer type questions will carry 20 marks each.
- iv) All questions will carry equal marks.

OBJECTIVES

Pupil-teachers would be able to-

- explain the discipline of education in Philosophical and Sociological perspectives
- describe the role of education in desirable social change, sustainability, socio-economic development
- define emerging issues like social equality and equity, social cohesion, democracy, secularism, human rights, right to education and concerns for the disadvantaged section of the society
- delineate the goal of education in the Indian Society
- describe philosophy of Jainism and Buddhism
- describe philosophy of Western philosophers
- describe the concept of knowledge economy
- explain globalization in the context of Indian education system

COURSE CONTENTS**UNIT-I**

1) Education: An Introduction

- Meaning of Education
- Agencies of Education (Family, peer groups, mass media, school, and state)
- Types of Education (Formal, Non-Formal, Informal)
- Role of Education in Democracy, Secularism, Socialism, Environmental Protection and Conservation

2) Education and Philosophy

- Concept of Philosophy
- Relationship between Education and Philosophy.
- Difference between Philosophy of Education and Educational Philosophy

3) A) Education to focus on-

- Learning to know
- Learning to do
- Learning to be
- Learning to live together.
- Knowledge: Concept, Types, Sources and Methods of acquiring it.

B) Philosophical analysis of Education, Teaching, Training and Indoctrination

UNIT-II

4) A) Educational implications of Western Schools of Philosophy of-

- Idealism
- Naturalism
- Pragmatism
- Existentialism

B) Educational implications of Indian Schools of Philosophy of-

- Sankhya
- Purva- Mimansa,
- Vedanta
- Buddhism
- Jainism

UNIT-III

5) Educational Goals in Indian Society

- Ancient Indian Goals: Purusharthas
- Indian Constitution and the Status of Education with reference to the following :
 - ♦ Universalization of Primary Education, Directive principles, Article 41, 45, and 46.
 - ♦ Equality of opportunities in education: Article-28,29,350,and 351
 - ♦ Education and Fundamental Rights and Duties: Article- 14,15,16,30, and 51 A (a to h), and Right to Information (RTI)

6) Education, Society and Social Justice

- Relationship between Education and Society
- Social equity and education
 - ♦ Within Country: Between region, social class, caste, gender and religious groups
 - ♦ Among the Nations: Rich, Poor, Developed and Developing.
- Equality of Educational Opportunity and National Integration
- U.N. Declaration of Human Rights and Right to Education
- Role of Education in Empowerment of Women and Weaker Sections including SC, ST, OBC and Minorities.

UNIT IV

7) Education for Economic Development

- Vocationalization of Education and Training for tomorrow
- Integration between Education & New Technology
- Education for Empowerment
- Role of Education in Technological Empowerment, Empowerment

of Socio-economic Weaker Sections, Empowerment for Social and Economic Changes

8) National Knowledge Economy

- National Knowledge Commission (NKC)
- Indian Knowledge System: Elementary, Secondary & Higher Education
- NKC on Management of Education

9) Globalization and Modernization

- Concept
- Advantages and disadvantages
- Competition, Collaboration and Partnership

SUGGESTED READINGS

1. Dagar B. S. & Dhull, I. (1994). *Perspective in Moral Education*, New Delhi: Uppal Publishers
2. Gore, M. S. (1984). *Education and Modernization In India*. Jaipur: Rawat Publishers
3. Havighurst, R. (1995). *Society and Education*, Boston: Allyn and Bacon
4. Inkeles, A. (1987). *What is Sociology?* New Delhi: Prentice Hall of India
5. Kamat, A. R. (1985). *Education and Social Change in India*, Mumbai: Samaiya Publishing House
6. M. H. R. D. (1990). *Towards an Enlightened and Human Society*, New Delhi : Department of Education
7. Maunheim, K. (1962). *An Introduction to Sociology of Education*, London: Routledge and Kegan Paul.
8. Pandey, K. P. (1983). *Perspectives in Social Foundations of Education*, Ghaziabad : Amitash Prakashan.
9. Pandey, R. S. (1982). *An Introduction to Major Philosophies of Education*, Agra: Vinod Publishing House
10. Thakur, A. S. & Berwal, S. (2007). *Education in Emerging Indian Society*, New Delhi : Mayur Paperbacks: National Publishing House.

PAPER II: LEARNER, LEARNING AND COGNITION

Time: 3 Hours

Max. Marks: 100

(Theory: 80, Practical: 20)

NOTE FOR PAPER SETTER

- i) Paper setters will set 9 questions in all, out of which students will be required to attempt 5 questions.
- ii) Q. No. 1 will be compulsory and carries 16 marks. There will be 4 short-answer type questions of 4 marks each to be selected from the entire syllabus.
- iii) Two long answer type questions will be set from each of the four units, out of which the students will be required to attempt one question from each unit. Long-answer type questions will carry 16 marks each.
- iv) All questions will carry equal marks.

OBJECTIVES

Pupil-teachers would be able to-

- differentiate between Growth and Development and explain general principles of development
- identify the variables involved in teaching- learning process so as to infer teacher's role in making instruction effective
- explain various aspects of development during adolescent years so as to be able to solve the problem of adjustment of their pupils
- explain major approaches to learning and interpret them vis-à-vis instructional applications, so as to be able to facilitate the learning of their pupils
- describe the needs of learner as individual and as a member of class room group so as to be able to facilitate personal and social development of their pupils

- explain the need and significance of guidance and counseling and to create an awareness of the approaches and strategies concerned
- explain the concept of thinking and its process
- describe group dynamics and its process including developing group mind

COURSE CONTENTS

UNIT-I

- 1) Educational Psychology and the Teaching-Learning Process
 - Educational Psychology: Concept and scope
 - Concept of teaching and learning
 - Variables in the teaching process. The learning task (Instructional objective), Learner Behaviour (Entry Behaviour), and Teacher Behaviour (Competence, Expectation, Personality, and Teaching Style etc.)
 - Role of Educational Psychology in the Teaching-learning process.
- 2) Growth and Developmental Pattern of Learners
 - Concept of Growth and Development
 - General principles of Growth and Development
 - Factors influencing development
 - *General and Environmental aspects of development, Physical and Motor, Cognitive (Piaget, Bruner etc.), Social and Emotional (Ericson), Moral (Piaget, Kohlberg)*
 - Problems and dilemmas of adolescence (with particular reference to the Indian context)
 - Guidance and Counselling

UNIT-II

- 3) Heredity and Environment
 - Concept

- Relative importance of heredity and environment in learner's development.
 - Stages and aspects of development with special reference to needs and problems of adolescents in the Indian context.
- 4) Approaches to Learning
- Introduction to learning - Concept and importance
 - Behavioral- Trial and Error, Conditioning (Classical & Operant) and Social learning.
 - Cognitive (Insightful learning, and Information Processing Model)
 - Constructivism-
 - ♦ Concept
 - ♦ Planning & Development of learning experience.

UNIT-III

- 5) Nature of the Learner
- Intelligence: Meaning, nature and theories of intelligence (two factor theory and Thurston's group factor theory), Measurement of intelligence and application of intelligence tests.
 - Creativity: Concept; relationship with intelligence; techniques for fostering creativity.
 - Interest and aptitude and their assessment.
 - Personality: meaning, nature and assessment.
- 6) Factors affecting Learning
- Maturation - Concept & Educational Implications.
 - Attention - Concept, Types & Educational Implications.
 - Fatigue - Concept, Types & Educational Implications.
 - Motivation - Concept and Theories (Maslow's Theory of Self-Actualization & Achievement Motivation by David McClelland.)

UNIT-IV

7) Mental Processes of Learning

- Thinking Process - Concept & Tools
- Types of Thinking - Divergent, Convergent, Critical, Reflective & Lateral Thinking.
- Mental Processes:
 - ♦ Memory - Concept, Types & Strategies to develop Memory.
 - ♦ Forgetting - Nature, Causes, Factors & Strategies to minimize Forgetting.
 - ♦ Imagination - Meaning, Types and Educational Implications.

8) Group Dynamics/Group Learning Strategies

- ♦ Meaning & Characteristics of a Social Group.
- ♦ Group Dynamics - Process and its Importance in Learning.
- ♦ Importance of developing Group Mind (Group Cohesiveness)
- ♦ Sociometry - Uses and Importance.
- ♦ Co-operative Learning and Constructivist Learning.

Practicum/Sessionals (to be evaluated by the external examiner)**Max. Marks: 20**

- 1) Administration and interpretation of any one of the following-
 - a. Intelligence Test
 - b. Interest Inventory
 - c. Aptitude Test
 - d. Personality Test
- 2) Prepare a Case Study of two students one general and one problem student
- 3) Plan a Motivational Schedule for enhancing learning

SUGGESTED READINGS

1. Aggarwal, J. C. Essential of Educational Psychology, Delhi: Doaba Book House

2. Allen, B. P. (2000). Personality Theories, Boston: Allyn and Bacon
3. Bhatnagar, S. (1980). Psychological Foundations of Teaching Learning and Development(Hindi), Meerut: Loyal Book Depot
4. Chauhan, S. S. (2001).Advanced Educational Psychology, New Delhi: Vikas Publishing House
5. De, Ceco & Crawford, L. (1988). The Psychology of Learning and Instruction, New Delhi:Prentice Hall
6. Rothestein, P. R. (1990). Educational Psychology, New York: McGraw Hills
7. Sharma, H.L.(2006). Dynamics of Creativity and Interest, New Delhi: Vista International Publishing House
8. Sprinthal, R. C. & Spriental, N. A. (1977). A Developmental Approach, New York: Addison Wesley
9. Wheldall, Kevin (2006). Developments in Educational Psychology, New York: Routledge
10. Woolfolk, Anita (2004), Educational Psychology, published by Darling Kindersley (India) Pvt. Ltd, Licensees of Pearson Education In South Asia

Paper-III (A): SECONDARY EDUCATION IN INDIA**Time: 1.30 Hours****Max. Marks: 50****NOTE FOR PAPER SETTER**

- i) Paper setters will set 5 questions in all, out of which students will be required to attempt 3 questions.
- ii) Q. No. 1 will be compulsory and carries 10 marks only. There will be 2 Short-answer type questions of 5 marks each to be selected from the entire syllabus.
- iii) Two long answer type questions will be set from each of the two units, out of which the students will be required to attempt one question from each unit. Long answer-type questions will carry 20 marks each.

OBJECTIVES**Pupil-teachers would be able to-**

- describe the historical background of secondary education in Modern India
- explain the problems of education and discuss the recommendations with reference to Secondary Education Commission, Indian Education Commission, National Policy on Education and National Curriculum Frame-work-2005
- demonstrate the knowledge of Constitutional obligations in relation to education in India
- describe the Secondary Education System in India
- describe the problems and issues in Secondary Education
- define the concept of Examinations reforms and their importance
- explain teacher Education at elementary and secondary level

COURSE CONTENTS**UNIT-1**

- 1) Education in the Constitution of India

- Important provisions Article 29, 30, 45 & their implications, 42nd, 72nd & 73rd amendments, and Right to education
- 2) Problems and issues in Elementary Education
 - Universalization of Elementary Education (UEE), Education for All (EFA), District Primary Education Program (DPEP),
 - Important interventions for UEE
 - National Policies on Education
 - ♦ NPE-1968
 - ♦ NPE- 1986
 - ♦ Programme of Action (1992)
 - ♦ Sarva Shiksha Abhiyan (SSA-2000) (Features, aims and Objectives)
 - ♦ National Curricular Framework -2005 (Needs and Objectives)
- 3) Problems and Issues in Secondary Education
 - Evolution of 10+2+3 pattern as a National System of Education. General Aims of Secondary Education, Main Features of secondary and senior secondary curriculum.
 - The study of the languages and three language formula
 - Quality of Education- Concept, Parameters, Status and Prospects with focus on Objective outlined in Delor's Commission Report
 - Vocationalization of secondary education

UNIT-II

- 4) Teacher Education at Secondary Level and Elementary level
 - Objectives of Teacher Education at secondary level
 - Pre-service and In-service teacher education at Secondary and Elementary level
- 5) Important Agencies- their roles and functions: University Grants Commission (UGC), National Council of Educational Research and Training (NCERT), National Council for Teacher Education (NCTE), National Assessment and Accreditation Council

(NAAC), State Council of Education Research and Training (SCERT) & District Institute of Education and Training (DIETs)

6) Examination reforms

- Concept and importance
- Implementation of Continuous and Comprehensive evaluation (Programme of Action 1992)
- Credit based system- concept, merits and limitations

SUGGESTED READINGS

1. Chopra, R. K. (1993). *Status of Teachers in India*, New Delhi: NCERT
2. Gupta, V. K. (2003). *Development of Education System in India*, Ludhiana: Vinod Publications.
3. Khan, R. S. & Ahamad, I (1997). *Elementary education and the Teacher*, Delhi: IASE, Jamia Millia Islamia
4. Mehndi, Baqer, (1982) *Nai Taleem Ke Masail*, New Delhi: Maktaba Jamia
5. NCERT (1991). *Elementary Teacher Education Curriculum: Guidelines and Syllabi*, New Delhi: NCERT
6. Rajput, J. S. (1994). *Universalisation of Elementary Education, Role of Teacher Education*, New Delhi: Vikas Publishing House
7. Sharma, Asha (2010) *Teaching of English*, Ludhiana: Vijay Publications.
8. Sharma, Asha (2009) *Madyamik Shiksha Avam School Parbandh*, New Delhi: Arya Book Depot
9. Siddiqui, M. A. (1993). *In-service Education of Teachers*, New Delhi, NCERT
10. Singh, L. C. (Ed.), (1990). *Teacher Education in India. A Resource Book*, New Delhi: NCERT
11. Singh, L. C. & Sharma, P. C. (1995) *Teacher Education and Teacher*, New Delhi: Vikas Publishing House
12. Singh, R. P. (1990). *Studies in Teacher Education*, New Delhi: Bahri Publications

Paper-III (B) Opt (i): YOGA EDUCATION

Time: 1.30 Hours

Max. Marks: 50

(Theory: 40, Internal: 10)

NOTE FOR PAPER SETTER

- i) Paper setters will set 5 questions in all, out of which students will be required to attempt 3 questions.
- ii) Q. No. 1 will be compulsory and carries 8 marks. It will be comprised of 2 short- answer type questions of 4 marks each to be selected from the entire syllabus.
- iii) Two long-answer type questions will be set from each of the two units, out of which the students will be required to attempt one question from each unit. Long-answer type questions will carry 16 marks each.

OBJECTIVES

Pupil-teachers would be able to-

- define the philosophy of yoga
- explain the psychology of yoga
- describe the socio-moral base of yoga
- explain physiology of Yoga
- classify yoga ,yogic diet and yogic lifestyle
- explain medical aspects of yoga in terms of improving mental health and reducing stress

COURSE CONTENTS

UNIT-1

1) Philosophy, Psychology and Kinds of Yoga

- Philosophy of Yoga, goals of life and yoga, fundamental concepts common to all schools of Indian Philosophy; the Trignna, the concept of Prakrit, Purusha-Vishsha (Ishwar) and their relation with each other; its meaning and kinds of smadhi.
- Psychology of yoga: Chitta (mind) and the methods of Chitta

control; Vritti, Pratyahara, Dharna and Dhyana.

- 2) Physiology of Socio-moral bases Kinds of Dhyana: Sthuula, Jyotiry and sukshama, niraml Chitta and the final Goal.

UNIT-II

- 3) Socio-moral base of yoga: The five YAMAS and the five NIYAMAS, the universal code of socio-moral restraints and personal observances leading to ideal adjustments in social and personal life.
- 4) Classification of Yoga: Raja Yoga (Ashtang Yoga), Hatha-Yoga, Sankhya-Yoga, Bhakti-Yoga and Matra-Yoga.
- 5) Yogic diet & its application in modern context.

Practicum/Sessionals: (to be evaluated by the Internal Examiner)

Max. Marks : 10

1. Participating in any five asanas of the following: Shavasana, Sarvangasana, Halasana, Paschimottanasana, Bhujangasana, Shalabhasana, Dhanurashna, Chakrasana, Vajrashna, Gomukhasana, Matsyasana, Janu- shirasana, Ardhmatsyendrasana, Padmasana and Shirasasana.
2. Participation in Neti, Kapalbhathi and Tratak.
3. Participation in Anulom-Vilom, Bhramari, Shitali, Ujjai Pranayamas.
4. Preparing a workbook (project reports of the selected five asanas, their physiological, psychological and anatomical effects on human body, mind, senses and intellect.)

SUGGESTED READINGS

1. Bawara, B. V. (1993). Aapki apni Baat, Haryana: Divine Radiance Publications.
2. Besant, A. (2005). An Introduction to Yoga., New Delhi: Cosmo
3. Iyenger, B.K.S. (1996). Lighter on Yoga. New Delhi: Harper Collins Publishers India Private Limited

4. Larson, James, G. & Bhattacharya, R. S. (2007). Encyclopedia of Indian Philosophies, Vol. XII. Yoga: Gerald James Larson and Ram Shankar Bhattacharya, New Delhi: Motilal Banarsidass Pub
5. Lata, P. (1996). Intelligence, Creativity, Self-concept and Personality characteristics of delinquents and non-delinquents. Chandigarh: Panjab University.
6. Lzmailovich, A. V. (1990). Sahaj Yoga as a cure for epilepsy, Sochi Physiotherapy Hospital. U.S.S.R: Department of Curatology
7. Omand, S. (1960). Patanjali Yoga Pradeep. Gorakhpur: Gita Press
8. Rai, V.C. (1989). Effect of Sahaj Yoga Meditation on cardiac disorders. Delhi Medical College: Department of Physiology
9. Rao, P. V. K. (1995). Scientific and Psychological significance of Yoga. Banaras Hindu University: Department of Education
10. Yadav, Y. P. & Yadav, R. (2003). Art of Yoga, New Delhi: Friends
11. Yogacharya, Omkareshwarananda, S. (2007). Freedom of body and mind: Yogasanas, Pranayam and Meditation, New Delhi: Rawat.

**Paper-III (B) Opt. (ii): EDUCATIONAL VOCATIONAL
GUIDANCE AND COUNSELLING**

Time: 1.30 hours

Max. Marks: 50

NOTE FOR PAPER SETTER

- i) Paper setter will set 5 questions in all, out of which students will be required to attempt 3 questions.
- ii) Q. No. 1 will be compulsory and carries 10 marks. It will be comprised of 2 short- answer type questions of 5 marks each to be selected from the entire syllabus.
- iii) Two long-answer type questions will be set from each of the two units, out of which the students will be required to attempt one question from each unit. Long-answer type questions will carry 20 marks each.

OBJECTIVES

Pupil teachers would be able to-

- explain the concepts of guidance and counseling
- demonstrate an understanding of educational, vocational and personal guidance
- assess the needs of an individual correctly for solving problems.
- use testing devices and techniques of guidance
- describe collection and dissemination of occupational guidance
- explain problems faced by students in the contemporary world.
- describe the working of guidance centers

COURSE CONTENTS

UNIT-I

1) Introduction to guidance

- Meaning, Nature, Scope & Functions of guidance
- Principles of guidance
- Need of guidance at various stages of life

- Types of guidance: Educational, Vocational and Personal guidance (their meaning, objectives, need and importance).
- 2) Procedures of Guidance
 - Individual and group procedures of guidance, their nature and advantages
 - Group guidance techniques- class-talks, career-talks, career-conference, group-discussion, field-visits, career-exhibition, audio-visual techniques
 - Role of various community agencies in school guidance programme
- 3) Counselling
 - Concept of Counselling
 - Theories of Counselling: Theory of Self (Rogers)
 - Types of Counselling: Directive, Non-directive, and Eclectic.
 - Process of counselling (Initial disclosure, in depth exploration and Commitment to action)
 - Skills in counselling (Listening, Questioning, Responding, and Communicating)
 - Role of teacher as a Counsellor and professional ethics associated with it.

UNIT-II

- 4) Understanding the individual
 - Studying and appraising an individual- its need and importance in EVG
 - Testing and non- Testing devices for the study of an Individual
 - Tests: Intelligence, Aptitude, Attitude, Interest, Achievement and Personality.
 - Techniques used in guidance: Questionnaire, Anecdotal records, Interview schedule, Case study, Diary and Autobiography.
 - Cumulative Record Cards
- 5) Job analysis and occupational information
 - Job analysis: Concept and need
 - Job satisfaction: Concept and factors affecting Job satisfaction
 - Relation between job analysis and job satisfaction
 - Concept of Occupational Information & Sources of Collection

- Career-Counselling and Dissemination of Occupational Information
- 6) Guidance Services and their organization in the Schools
 - Types of Guidance services
 - Role of school personnels in organizing guidance services.

SUGGESTED READINGS

1. Aggarwal, J. C. (2004). Educational vocational guidance and counseling, Delhi: Doaba House
2. Granz, R. M. (2005). *Foundation and Principle of Guidance*, Boston: Allyn & Bacon.
3. Gupta, V. K. (2004). *Educational Guidance and Counselling*, Ludhiana: Ankur Publications
4. Jones, J. A. (1970). *Principles of Guidance*, Bombay: Tata, New York: McGraw Hill
5. Kocher, S. K. (2007). *Educational Guidance and Counselling*, New Delhi: Sterling
6. Myres, G. E. (2005). *Principles and Techniques of Vocational Guidance*, New York: McGraw Hill.
7. NCERT (2008). *Counselling process and strategies (Module 2)*. New Delhi: NCERT
8. NCERT (2008). *Guidance for human development and adjustment (Module 3)*. New Delhi: NCERT.
9. NCERT (2008). *Introduction to Guidance (Module 1)*. New Delhi: NCERT
10. Pandey, K. P. (2000). *Educational and Vocational Guidance in India*, Varanasi: Vishwa Vidyalaya Prakashan
11. Rathus, S. A. & Nevied, J. S. (1980). *Adjustment and Growth: The challenges of life*, New York: Rinehart and Winston
12. Robinson (2005). *Principles and Procedures in Student Counselling*, New York: Harper & Row
13. Strang, R. (2005). *Counselling Techniques in Colleges and Secondary Schools*, New York: Harper
14. Sharma, R.A. (2008), *Fundamentals of Guidance & Counseling*, Meerut: R Lall Book Depot.

Paper-III B Opt. (iii) : HEALTH AND PHYSICAL EDUCATION**Time: 1.30 Hours****Max. Marks: 50****NOTE FOR PAPER SETTER**

- i) Paper setters will set 5 questions in all, out of which students will be required to attempt 3 questions.
- ii) Q. No. 1 will be compulsory and carries 10 marks only. It will be comprised of 2 short-answer type questions of 5 marks each to be selected from the entire syllabus.
- iii) Two long-answer type questions will be set from each of the two units, out of which the students will be required to attempt one question from each unit. Long-answer type questions will carry 20 marks each.

OBJECTIVES

Pupil-teachers would be able to-

- explain the concept, aims and objectives of Health and Physical Education.
- describe hygienic environment along with contributing factors and its importance
- explain various Communicable diseases and first aid.
- demonstrate ability to describe balanced diet.
- explain good posture.
- define general medical standard of an individual.

COURSE CONTENTS**UNIT-I**

- 1) Health Education
 - Concept
 - Aims and objectives of health education
 - Factors influencing health
 - School health programmes
 - School health services
 - Role of the teacher in School Health programme

- 2) Physical Education
 - Concept
 - Misconception
 - Aim and objectives
 - Relation with general education.
- 3) Nutrition and Balanced Diet
 - Components of Balanced Diet
 - Functions
 - Major sources
 - Malnutrition.

UNIT-II

- 4) Posture
 - Concept and values
 - Postural deformities and their Management.
 - Personal Hygiene
 - Environmental Hygiene
 - Pollution and Global Warming
- 5) Communicable diseases- Mode, control and prevention
- 6) Physical Fitness and First Aid.
 - Physical fitness: Meaning, elements, and importance.
 - First aid in the following -Hammaerage, Laceration, Contortion, dislocation, fracture, cuts, wounds, bites of insects, sprain and strain.

SUGGESTED READINGS

1. Bucher, C. A. (1964). Foundations of Physical Education, New York: Mosby & Company
2. Kilander, H. F. (1971). School Health Education, New York: Mac Millan Company
3. Manjul, J. U. S. (1965). School Swasthya Shiksha, Agra University: Universal Publisher

Paper-III B Opt. (iv): ENVIRONMENTAL EDUCATION**Time: 1.30 Hours****Max. Marks: 50****NOTE FOR PAPER SETTER**

- i) Paper setters will set 5 questions in all, out of which students will be required to attempt 3 questions.
- ii) Q. No. 1 will be compulsory and carries 10 marks. It will be comprised of 2 short answer type questions of 5 marks each to be selected from the entire syllabus.
- iii) Two long-answer type questions will be set from each of the two units, out of which the students will be required to attempt one question from each unit. Long-answer type questions will carry 20 marks each.

OBJECTIVES

Pupil-teachers would be able to-

- define the concept of environmental education.
- explain components of environment and healthy environment
- explain various global environmental issues
- demonstrate knowledge of impact of technology on environment.
- define major eco-systems and their conservation.
- explain various kinds of pollution.

COURSE CONTENTS**UNIT-I**

- 1) Environmental Education
 - Concept, definition, principles
 - Need and importance
 - Goals and objectives of environmental education for sustainable development.
 - Methodologies of Environmental Education.
- 2) Teaching Environmental Education
 - Various methods (survey, project and field trip)

- Role of school and teacher- various activities and associated skills
 - Eco magazine
 - Exhibition and plantation
 - Eco-Club - meaning, objectives, structure, and activities
- 3) Environment
- Meaning and definition of Environment and its Components
 - Principles of environment
 - Major environmental problems
 - Concept of healthy environment & efforts in this direction
 - Conservation of environment: Government commitment in national and international fields.

UNIT-II

- 4) Global Environmental Issues.
- Depletion of ozone layer.
 - Global Warming (Green House Effect)
 - The major Eco-systems and their conservation- terrestrial and aquatic Eco- system
- 5) Impact of Technology on Environment
- Environment Pollution
 - Soil Pollution
 - Water Pollution
 - Air Pollution
 - Noise Pollution
- 6) Miscellaneous Environmental Issues.
- Forests and their conservation.
 - Wildlife and its conservation.
 - Conservation of energy resources.
 - Alternate source of energy.
 - Waste management.
 - Population and environment- Human population growth and its problems
 - Indoor environment.

SUGGESTED READINGS

1. Gupta, V. K. (1998). Environmental Education, Jalandhar: New Academic Publishing House
2. Kormondy, E. (1991). Concept of Ecology, New Delhi: Prentice Hall of India
3. Palmer, J. & Philips, N. (1994). The Handbook of Environmental Education, New York: Rout Ledge
4. Purdom, P. W. & Aredson S. (1980). Environmental Science, Columbus: Charlies E. Merrill Publishing Co.
5. Sharma, P. D. (1993). Environmental Biology, Meerut: Rastogi & Co.
6. Sharma, R. C. & Tan, M. C. (eds) (1990). Source Books of Environmental Education for Secondary School Teachers. Bangkok: UNESCO
7. Ship, S A. B. (1996). Education for the Environmental Concerns, Implications and Predices. New Delhi: Radha Publication

PAPER-III (B) Opt. (v): DISTANCE AND OPEN LEARNING**Time: 1.30 Hours****Max. Marks: 50****NOTE FOR PAPER SETTER**

- i) Paper setters will set 5 questions in all, out of which students will be required to attempt 3 questions.
- ii) Q. No. 1 will be compulsory and carries 10 marks. It will be comprised of 2 short-answer type questions of 5 marks each to be selected from the entire syllabus.
- iii) Two long-answer type questions will be set from each of the two units, out of which the students will be required to attempt one question from each unit. Long-answer type questions will carry 20 marks each.

OBJECTIVES

Pupil-teachers would be able to-

- recall and explain the concept, scope and applications of Distance Education
- describe history and future of distance education
- explain in own words the factors involving Distance Education
- identify the steps for the preparation of self Instructional materials- SIM or self-learning materials (SLM)
- define role of mass media in distance education

COURSE CONTENTS**UNIT-I**

- 1) Concept of Distance Education
 - Related terms with Distance Education
 - Non-formal Education
 - De-schooling education
 - Correspondence education
 - Open education

- Scope of Distance education.
- 2) History, importance and Future of Distance Education in India
 - Present Status
 - History of Distance Education.
 - Need and Importance of Distance Education.
 - Future of Distance Education in India.
- 3) Mass media in Distance Education
 - Print and Non-Print Media.
 - Audio-Visual Computer based media.
 - Learning through media.

UNIT-II

- 4) Distance educator, Distance learners and Self Learning Materials.
 - Distance educators and their types
 - Professional training in distance education.
- 5) Different types of Distance Learners and their possible problems
 - Student counselling services in Distance Education.
 - Continuous assessment in Distance Education
- 6) Self Learning Materials and its preparation
 - Preparation of Self-Learning Materials. (SLM)
 - Self-Instructional Material (SIM) format
 - Distance Education as investment for Learners.

Suggested Reading

1. Bates, A. W. (1995). Technology, Open Learning and Distance Education, London: Routledge.
2. Bates, T. (1993). Theory and Practice in the use of Technology in Distance Education, London: Routledge.

3. Dececco, John P. & Crawford, W. (1997). *The Psychology of Learning and Instruction*, New Delhi: Prinice Hall of India Pvt. Ltd.
4. Gagne, R.M. & Briggs, L.J. (1974). *Principles of Instructional Design*, New York: Rinehart & Winston.
5. Koul, B.N. & Creed, C. (1990). *Study of Language Needs of Commonwealth Students Studying at a Distance through the Medium of English*, Report prepared for the British Council.
6. Masonh, R. (1998). *Globalizing Education: Trends and Applications*, London: Routledge.
7. Panda, Santosh (2006). *Planning and Management in Distance Education*. New Delhi. Viva Books.
8. Ramanujam, A. R. (1995). *Reflections on Distance Education for India*, New Delhi: Manak Publications Pvt. Ltd.

**Paper-III B Opt. (vi): EDUCATIONAL MEASUREMENT
AND EVALUATION**

Time: 1.30 Hours

Max. Marks: 50

NOTE FOR PAPER SETTER

- i) Paper setters will set 5 questions in all, out of which students will be required to attempt 3 questions.
- ii) Q. No. 1 will be compulsory and carries 10 marks. It will be comprised of 2 short-answer type questions of 5 marks each to be selected from the entire syllabus.
- iii) Two long-answer type questions will be set from each of the two units, out of which the students will be required to attempt one question from each unit. Long -answer type questions will carry 20 marks each.

OBJECTIVES

Pupil-teachers would be able to-

- define evaluation, assessment and measurement
- explain measurement procedures in respect of cognitive and non-cognitive tests
- describe Norm Referenced and Criterion Referenced Testing (CRT)
- explain approaches of evaluation
- classify and differentiate tools and techniques of evaluation
- explain continuous and comprehensive evaluation

COURSE CONTENTS

UNIT-I

- 1) Evaluation, assessment and Measurement
 - Fundamental assumptions underlying the concepts of evaluation, assessment and measurement: Similarities and differences
 - Types of scales: Nominal, Ordinal, Interval and Ratio scales
 - Characteristics of a measuring instrument, concept of reliability and validity and their procedures of estimation

- 2) Measurement procedures in respect of cognitive and non-cognitive tests
 - Ability testing procedures
 - Disability testing procedures
 - Uses of cognitive and non-cognitive tests
- 3) Norm-Referenced and Criterion-Referenced Testing (NRT & CRT)
 - Concept of NRT and CRT and difference between NRT and CRT
 - Developing tests under NRT and CRT approaches
 - Assessing the difficulty and discrimination indices of test items; estimation of reliability and validity for NRT and CRT approaches

UNIT-II

- 4) Evaluation- Concept and Approaches
 - Definition, need, and importance
 - Characteristics of evaluation
 - Formative and Summative evaluation
 - External and Internal evaluation, advantages and disadvantages
 - Norm referenced and criterion referenced evaluation concepts
- 5) Techniques and tools of evaluation
 - Testing- concept and purposes
 - Observational techniques
 - Projective techniques
 - Types of evaluation tools
 - Rating scales, Intelligence Tests, Aptitude tests, Inventories, the Anecdotal records
- 6) Continuous and Comprehensive Evaluation and Credit Based Evaluation
 - Continuous evaluation
 - Comprehensive evaluation
 - Credit based evaluation
 - Functions, strength, and limitation

SUGGESTED READINGS

1. Agarwal, S. N. (1976). Educational and Psychological Measurement, Agra: Vinod Pustak Bhandar
2. Aggrawal, Y. P. (1990). Statistical Methods-Concepts, Applications and Composition, New Delhi: Sterling Publishers
3. Balls, S. & Aderson, S. (1976). Encyclopedia of Educational Evaluation in Teaching New York: McMillan
4. Kubiszyn, T. & Borich, G. (1977) Educational Testing and Measurement: Classroom application and practice, New York: Harper Collins College Publisher
5. Popham, W. I. (1977). Educational Evaluation, Englewood: Prentice Hall
6. Sinha, H. S. (1974). Modern Educational Testing, New Delhi: Sterling
7. Thorndike, R. L. & Hagen, E. (1969). Measurement and Evaluation in Psychology and Education, New Delhi: John Wiley.
8. Wittrock, M. C. & Wiley, D. E. (ed.) (1970). The Evaluation of Instruction, New York: Holt Rinehart

**Paper-III B Opt. (vii): GENDER SENSITIZATION
AND SCHOOL**

Time: 1.30 Hours

Max. Marks: 50

NOTE FOR PAPER SETTER

- i) Paper setters will set 5 questions in all, out of which students will be required to attempt 3 questions.
- ii) Q. No. 1 will be compulsory and carries 10 marks. It will be comprised of 2 short-answer type questions of 5 marks each to be selected from the entire syllabus.
- iii) Two long-answer type questions will be set from each of the two units, out of which the students will be required to attempt one question from each unit. Long-answer type questions will carry 20 marks each.

OBJECTIVES

Pupil-teachers would be able to-

- explain the concepts of sex and gender.
- demonstrate an understanding of psychological and sociological perspectives of sex and gender.
- explain the social construction of gender with special reference to family.
- describe women in education and various laws protecting them.
- list the factors contributing to gender inequalities in schooling.
- describe the concept of women empowerment and various roles of women in sustainable development.

COURSE CONTENTS

UNIT-I

- 1) Sex and Gender
 - Psychological and Sociological perspectives
 - Radical Feminism- Gender, patriarchy, reproductive technology, and motherhood
 - Socialist - Feminis;-class, gender and division
 - Indian Women- Family, caste, class, culture, religion and social system.

- 2) Social construction of gender
 - Socialization
 - Family
 - Gender identity; the media, gender roles and stereotypes; class, caste, community and gender relations
- 3) Women Education and Law
 - Women access to and participation in formal education
 - Women and non-formal education
 - Media and women
 - National effort to protect women's rights

UNIT-II

- 4) Gender inequalities in schooling
 - Organisation of schooling
 - Gender bias in text books
 - Curricular choices and
 - Hidden curriculum (teacher attitude, classroom interaction and peer culture)
- 5) Gender and Schooling -Education for gender equity
 - Case studies of interventions in school education
 - Reflections from the field and strategies for change
 - The Lok Jumbish Experience
- 6) Education and Empowerment of Women
 - Concept and importance
 - Women and sustainable development
 - Special role of women as protector of environment
 - Waste management and women
 - Women as workers

SUGGESTED READINGS

1. Bordia, A. (2007). Education for gender equity: The Lok Jumbish experience, p 313-329

2. Chatterji, S. A. (1993). *The Indian Women in perspective*, New Delhi: Vikas Publishing
3. Devendra, K. (1994). *Changing status of women in India*, New Delhi: Vikas Publishing House
4. Gupta, A. K. (1986). *Women and Society*, New Delhi: Sterling Publications
5. Ministry of Education (1959). *Report of National Committee of Women's Education*. New Delhi: ME
6. Ruhela, S. (1988). *Understanding the Indian Women Today*; Delhi: Indian Publishers Distributors
7. Thakur, H. K. (1988). *Women and Development planning (Case study of Nauhatta Block)*, New Delhi: Vikas Publishing House

PAPER-III (B) Opt. (viii): HUMAN RIGHTS EDUCATION**Time: 1.30 Hours****Max. Marks: 50****NOTE FOR PAPER SETTER**

- i) Paper setters will set 5 questions in all, out of which students will be required to attempt 3 questions.
- ii) Q. No. 1 will be compulsory and carries 10 marks. It will be comprised of 2 short-answer type questions of 5 marks each to be selected from the entire syllabus.
- iii) Two long-answer type questions will be set from each of the two units, out of which the students will be required to attempt one question from each unit. Long-answer type questions will carry 20 marks each.

OBJECTIVES

Pupil-teachers would be able to-

- ♦ describe various human rights.
- ♦ classify human rights.
- ♦ illustrate human rights commissions.
- ♦ list the domains of human rights.
- ♦ explain constitutional and institutional safeguards.
- ♦ state problems of Refugees.
- ♦ define UN Principles in association with human rights.

COURSE CONTENTS**UNIT-I**

- 1) Human Rights Education
 - Role of UNESCO, Role of School, Education up to 14 years as Fundamental Right, Fundamental Duties, Media and its role.
 - Constitutional and Institutional safeguards to Human Rights, National Human Rights Commission (NHRC) and associated Human Rights Commission.
- 2) Vital Domains of Human Rights

- Right to information, Poverty, Child Labour, and Environment
- Human rights in relation to Women, Terrorism, and Disabled
- Human Rights in India,
- United Nations and Human Rights

UNIT-II

3) Judicial Activism

- Human Rights violation and Police
- Problem of Refugees and internationally Displaced Persons

4) Custodial Justice

- Guidelines to Police Commissioners and District magistrates
- Standard Rules for Treatment of Prisoners
- UN Principles for Protection of Prisoners

SUGGESTED READINGS

1. Barwal, K. (2005). Political Rights conferred on Women in Kuwait, *Competition Success Review*, p.
2. Devine, C., & Wilde, C. R. H. R. (1999). *Human Rights: Essential Reference Book*,
3. Donnelly, J. (2003). *Universal Human Rights in Theory and practice*, New Delhi: Sterling.
4. Kaarthiskeyan, D.R (2005). *Human Rights:Problems and Solutions*. New Delhi: Gyan Publishing House <http://www.gyanbookscom>.
5. Maria, A. (2002). *Women Empowerment Teacher-Education Edutracks, VIII*, p.11-17.
6. Sharma,B.L.and B.K Maheswari *Education for Value Environment of Human Rights*
7. Smith, R. (2008). *Essentials of Human Rights*. New Delhi: Sterling Publications.
8. Sridevi, C. & Vijayawada, *Socio Historical Context, Social Diversities and Commonalities*, New Delhi: Indira Gandhi National Open University, Press.
9. WWW. Youth for Human Rights. Org.

Paper-IV (A): CURRICULUM AND SCHOOL MANAGEMENT**Time: 1.30 Hours****Max. Marks: 50****NOTE FOR PAPER SETTER**

- i) Paper setters will set 5 questions in all, out of which students will be required to attempt 3 questions.
- ii) Q. No. 1 will be compulsory and carries 10 marks. It will be comprised of 2 short- answer type questions of 5 marks each to be selected from the entire syllabus.
- iii) Two long-answer type questions will be set from each of the two units, out of which the students will be required to attempt one question from each unit. Long-answer type questions will carry 20 marks each.

OBJECTIVES

Pupil-teachers would be able to-

- develop an understanding of the concept, principles and steps of curriculum development
- develop an understanding of the concept, need, scope and functions of school management
- develop an understanding of different components of human and material resources of the school
- develop an understanding of various characteristics of a quality school
- develop an awareness of various characteristics of a quality school
- develop an understanding of the concept, need and importance, types and principles of time-table construction, school-records and co-curricular activities
- develop an understanding of the concept and principles of classroom management
- develop an understanding of the role of a teacher in classroom management

COURSE CONTENTS**UNIT-1**

1) Curriculum

- Meaning
- Importance
- Bases of Curriculum

2) Curriculum Development

- Concept, Need and importance of curriculum development.
- Principles of curriculum development.
- Factors affecting curriculum development: Philosophical, Social and Psychological.

3) Steps of curriculum development and evaluation of curriculum.

UNIT-II

4) School Management

- School Management: Concept, Need, nature, scope and functions.
- Management of human and material resources: components of human and material resources, responsibilities and qualities of a headmaster and a teacher; relationship of a headmaster and a teacher, characteristics and maintenance of a school plant.

5) Classroom Management: Concept, principles, problems and solutions, factors and role of a teacher.

- Maintenance of School-Records: need and importance, advantages, requisites and types of school-records.
- Time-Table: concept, need, importance, types and Principles of construction of school time table.
- Co-curricular Activities: meaning, importance, types and principles of organizing co-curricular activities, organization of morning assembly, field trips, school publication, NCC, Dramatics, debates and discussions; declamations and symposia.

SUGGESTED READINGS

1. Agarwal, V. & Bhatnager, R. P. (1997). Educational Administration, Meerut: R. Lall Book Depot.
2. Aggarwal, J. C. (1967). Education Administration, School Organisation and Super vision, Delhi: Arya Book Dept
3. Aggarwal, J. C. (2003). Handbook of Curriculum and Instruction, Delhi: Doaba Book House
4. Bhatia, K. K. & Chadda D. P. C. (1980). Modern Indian Education and its problems, Ludhiana: Prakash Brothers
5. Chopra, R. K. (1993). Status of Teacher in India, New Delhi: NCERT
6. Goodland, J. (1979). Curriculum Enquiry the study of curriculum practices. New York: McGraw Hill
7. Hass,G (1991). Curriculum Planning, A new Approach, Boston: Allyn Bacon
8. Hooer, R.(1971). Curriculum: Context, Design and development New York: Longmans
9. Lawten, D. (1986). School curriculum Planning, London: Holders and Stayhton
10. Menon, T. K. N. & Kaul, G N. (1954). Experiments in Teacher Training, New Delhi: Sterling Publishers
11. Nicholls, H. (1978). Developing Curriculum- A Practical Guide, London: George Alcen and Unwin
12. Payne, D. A. (1973). Curriculum Coalition: Commentaries on purpose, process and product. Boston: D.C. Heath
13. Siddiqi, M. A. (1993). In Service Education of Teachers, New Delhi: NCERT
14. Singh, L. C. & Sharma, P. C. (1995). Teacher Education and the Teacher, New Delhi: Vikas Publishing House
15. Singh, R. P. (1990). Studies in Teacher Education, New Delhi: Bahri Publication
16. Taba, H. (1962). Curriculum Development: Theory and Practice, New York: Harcourt, Brace and world
17. William, M. A. (1966). Planning Curriculum for Schools. New York: Rinchart and Winston

PAPER-IV (B): INCLUSIVE EDUCATION**Time: 1.30 Hours****Max. Marks: 50****NOTE FOR PAPER SETTER**

- i) Paper setters will set 5 questions in all, out of which students will be required to attempt 3 questions.
- ii) Q. No. 1 will be compulsory and carries 10 marks. It will be comprised of 2 short answer-type questions of 5 marks each to be selected from the entire syllabus.
- iii) Two long-answer type questions will be set from each of the two units, out of which the students will be required to attempt one question from each unit. Long-answer type questions will carry 20 marks each.

OBJECTIVES

Pupil-teachers would be able to-

- develop an understanding of the concept, principles and models of inclusive education in the context of education for all
- identify and address diverse needs of all learners
- familiarize with the trends and issues in inclusive education
- develop an attitude to foster inclusive education
- develop an understanding of the role of facilitators in inclusive education

COURSE CONTENTS**UNIT-I**

- 1) Introduction to Inclusive Education
 - Concept, Meaning and Need
 - Transition from segregation to inclusion
 - Principles
 - Models
 - National Policy for Person with Disabilities 2006 with reference to inclusive education.
 - Sarva Shiksha Abhiyaan-2002 with reference to inclusive education.

2) Special Educational Needs (SEN) of learners in inclusive school

- Identification of diverse needs of SEN learners and Referrals
- Disabilities in Children and their SEN: Hearing Impairment, Visual Impairment, Low Vision, Orthopaedic Impairment, Intellectual Impairment, Cerebral Palsy, Learning Disabilities and Multiple Disabilities
- Types and Use of Assistive Devices for Learners with SEN
- Barriers in Inclusive Education: Attitudinal, Social and Educational
- Educational Concessions and Facilities.

UNIT-II**3) Planning and managing inclusive curriculum in schools**

- School Readiness and School transition
- Individualized Educational Plan (IEP): Development & Implementation.
- Practices and Classroom Management in Inclusive Education: Seating Arrangement, Whole class Teaching, Collaborative Teaching, Activity-Based Learning, Peer-Tutoring and Co-operative learning.
- Curricular and Instructional accommodations

4) Facilitators for inclusive education

- Need for Multidisciplinary Approach
- Role and Responsibilities: General, Special and Resource Teachers
- Role and Responsibilities: Family and Community
- Parent- Professional Partnership: Need and Relevance

SUGGESTED READINGS

1. Adrian A., John E. (1998). Educating children with Special needs, New Delhi: Prentice Hall
2. Alur, M. and Bach, M. (2010). The Journey for inclusive Education in the Indian Subcontinent. New York: Routledge.
3. Baquer, A. & Sharma, A. (1997). Disability: Challenges Vs. responses, Can Publishing

4. Bartlett, L. D., Weisentein, G.R. (2003). *Successful inclusion for educational leaders*. New Jersey: Prentice Hall
5. Chaote J. S. (1991). *Successful mainstreaming*, New York: Allyn & Bacon
6. Daniels, H. (1999). *Inclusive Education*, London: Kogan
7. Deiner, P.L. (2000). *Resource for Teaching children with diverse abilities*, Florida: Harcourt Brace & Company
8. Dessent, T. (1987). *Making ordinary school special*, Jessica Kingsley Publishing
9. Gargiulo, R.M. (1997). *Special education in contemporary society: An Introduction to Exceptionality*. Belmont: Wadsworth publications
10. Gathoo, V. (2004). *Curriculum strategies and adaptations for children with hearing impairment*. New Delhi: Kanishka Publishing
11. Giuliani, G. A. & A., M. (2002). *Education of children with special needs: From segregation to inclusion*, New Delhi: Sage Publications
12. Hollahan, D. P. & Kauffman, J. M. (2000). *Exceptional Learners: Introduction to special education*, Boston: Allyn and Bacon.
13. Joyce S. Shoate (1997). *Successful inclusive teaching*, Boston: Allyn & Bacon
14. Karant, P. & R. , J. (2003). *Learning Disabilities in India*, New Delhi: Sage Publication
15. Mohapatra, C. S. (ed.) (2004). *Disability management in India: Challenges and Commitments*. New Delhi: Indian Institute of Public Administration
16. Mani, M. N. G. (2004). *Successful Inclusion strategies for secondary and middle school teachers*, New Delhi: Sage Publishing House

17. Jha, M. M. (2002). School without walls: inclusive education for all. Oxford: Heinemann.
18. Mathew, S. (2004). Education of children with hearing impairment, RCI, New Delhi: Kanishka Publications
19. Panda, K. C. (1997). Education of exceptional children, New Delhi: Vikas Publications
20. Sedlak, Ribert, A. & Schlosss P. (1986). Instructional methods for students with learning and behavior problems, New York: Allyn & Bacon
21. Yesseldyke, J. S. & Algozzine, B. (1998). Special Education: A Practical approach to teachers. New Delhi: Kanishka Publishers, Distributers.

**PAPER -V: INFORMATION, COMMUNICATION
AND EDUCATIONAL TECHNOLOGY**

Time: 3 Hours

Max. Marks: 100

NOTE FOR PAPER SETTER

- i) Paper setters will set 9 questions in all, out of which students will be required to attempt 5 questions.
- ii) Q. No. 1 will be compulsory and carries 20 marks. It will be comprised of 4 short- answer type questions of 5 marks each to be selected from the entire syllabus.
- iii) Two long-answer type questions will be set from each of the FOUR units, out of which the students will be required to attempt one question from each unit. Long-answer type questions will carry 20 marks each.
- iv) All questions will carry equal marks.

OBJECTIVES

Pupil-teachers would be able to-

- define the concept of ICT
- understand the role of Information Communication Technology in present and future
- understand computer network and use of internet in teaching and learning
- get awareness of computer usage and its importance in education
- define the scope and importance of educational technology in contemporary society
- explain emerging technologies exhibiting proper perspective and attitudes
- acquire theoretical bases of educational technology and to develop awareness about recent development in the area of Educational Technology

COURSE CONTENTS**UNIT-1**

- 1) Information and Communication Technology
 - Meaning and Concept
 - Models of Communication, Classroom Communication
 - Concept of Tele-communication and Satellite-communication- Teleconferencing, Video Conferencing
- 2) Introduction to computers
 - Input and Output devices
 - MS Office-2003 onwards (Word, Excel, MS Access, PowerPoint, Paint)
 - Computer care- Viruses, Security and maintenance
 - Uses and Applications of computer.
- 3) Networking
 - Internet and its Working- WWW, Educational website, E-mail
 - E-learning and Virtual Classrooms
 - Multimedia-Meaning, Concept, Required Software, and use in education

UNIT-II

- 4) Educational Technology
 - Meaning and Concept
 - Scope & Significance
- 5) Training Strategies
 - Demonstration, Programmed Learning, Interaction Analysis, Simulation and Micro Teaching.
- 6) Thinking Skills
 - Concept, Types, Various strategies for developing Thinking

UNIT-III

- 7) Innovations in Teaching-Learning
 - System Approach

- Personalized Instructional System
 - Co-operative learning
 - Language Laboratory
8. Models of Teaching
- Concept
 - Fundamental Elements of Models of teaching
 - Types of Teaching Model
9. Glaser's basic Teaching Model, Inquiry Training Model, Mastery Learning Model, Concept Attainment Model

UNIT-IV

10. Action Research
- Concept, Need and Importance of Action Research
 - Procedure of Action Research
 - Developing a few action Research Projects in School context.
11. Educational statistics
- Meaning and Importance
 - Statistical data and its Organization
 - Graphical representation of data: Histogram, Bar Diagram, Frequency Polygon, Ogive
12. Descriptive Statistics: Concept and computation
- Measures of Central Tendency- Mean, Median and Mode
 - Measures of Dispersion- Quartile deviation and Standard Deviation
 - Correlation- Rank Difference and Product Moment method

SUGGESTED READINGS

1. Aggarwal, Y.P. (1998). *Statistical Methods-Concepts, Applications and Composition*, New Delhi: Sterling.
2. Best, John W. & Kahn, J. (1995). *Research in Education*, New Delhi: Prentice Hall.
3. Cohen, L., Manion, L. and Morrison, K. (2007). *Research Methods in Education*. New York. Routledge.

4. Garret, H. E. (1956), Elementary Statistics, Longmans, Green & Co., New York.
5. Good, C.V. & Douglas, E.S. (1954), Methods in Social Research, New York: McGraw Hill.
6. Guilford, J.P. (1965). Fundamental Statistics in Psychology and Education, McGraw Hill Book Company, New York.
7. Jenkins, J. (1998). Distance Education, the Internet and the learning Culture, A paper presented in International Conference on Collaborative Networked Learning, New Delhi: IGNOU.
8. Jon, N. (1981). A Teachers Guide to Action Research, London: Grant McIntyre Limited.
9. Kasturiranjana, K. (1995). Valedictory address in the seminar on Technologies for Education Networking, New Delhi: IGNOU.
10. Koul, L. (2007). Methodology of Educational Research, New Delhi: Vikas Publications Pvt. Ltd.
11. Kulkarni, S.S. (1986). Introduction to Education Technology, New Delhi: Oxford & IBH Publishing Co.
12. Kumar, K.L. (1996). Educational Technology and Communication Media, Cuttack: Nalanda.
13. McMillan, J.H. & Schumacher, S. (1989). Research in Education: A Conceptual Introduction, New York: Harper & Collins.
14. Mehra, Vandana (2010) A Text Book of Educational Technology, New Delhi: Sanjay Prakashan
15. Mohanty, J. (1992). Educational Technology, New Delhi: Deep and Deep Publication.
16. Mukhopadhyaya, M. (ed.) (2005). Education Technology Knowledge Assessment, New Delhi: Shipra Publications.
17. Neuman, W.L. (1997). Social Research Methods: Qualitative & Quantitative Approaches, Boston: Allyn & Bacon.

18. Richmond, W. R. (ed.) (1900). *The Concept of Education Technology: A Dialogue with Yourself*, London: Weidenfield and Nicolson.
19. Sachdeva, M. S., Sharma, K. K. and Kumar, S. (2007). *Educational Technology, Patiala : Twenty First Century Publications*
20. Sampath, K., Pannirselvam, A. & Santhanam, S. (1990). *Introduction to Educational Technology*, New Delhi: Sterling Publishers Private Limited.
21. Siegel, S. (1986). *Non-parametric Statistics*, New York: McGraw Hill.
22. Sutherland, R., Robertson, S. and Peter John. (2009). *Improving Classroom Learning with ICT*, New York: Routledge.
23. Takewale, R. G. (1995). *Technologies for Educational Network, Presidential address in the seminar on Technologies for Educational Networking*, New Delhi: IGNOU.
24. Urns, R.B. (1991). *Introduction to Research in Education*, New Delhi: Prentice hall.

Paper-VI & VII (Group A) Opt (i): TEACHING OF HINDI**Time: 3 Hours****Max. Marks: 100****NOTE FOR PAPER SETTER**

- i) Paper setters will set 9 questions in all, out of which students will be required to attempt 5 questions.
- ii) Q. No. 1 will be compulsory and carries 20 marks. It will be comprised of 4 short- answer type questions of 5 marks each to be selected from the entire syllabus.
- iii) Two long-answer type questions will be set from each of the four units, out of which the students will be required to attempt one question from each unit. Long-answer type questions will carry 20 marks each.
- iv) All questions will carry equal marks.

OBJECTIVES

Pupil-teachers would be able to-

- define the nature, need & principles of Hindi language
- explain different methods of teaching Hindi
- demonstrate the use of various audio visual aids
- explain objectives and steps of teaching prose, poetry & grammar of Hindi
- explain the meaning of evaluation and types of evaluating techniques

इकाई 1

हिन्दी-शिक्षक

(9)

- मातृ भाषा शिक्षण का अर्थ, स्वरूप, महत्त्व एवं ब्लूम द्वारा निर्धारित अनुदेशात्मक उद्देश्य।
- भाषाई कौशल का सामान्य ज्ञान
 - (अ) श्रवण कौशल
 - (आ) भाषण कौशल

- (इ) पठन कौशल
(ई) लेखन कौशल

(2)

- हिन्दी में उच्चारण शिक्षण, अक्षर-विन्यास एवं विराम-चिन्ह।
- हिन्दी शिक्षण में सूचना तकनीकी की उपयोगिता एवं प्रयोग।

इकाई २

(3)

- पाठ योजना का अर्थ, महत्त्व एवं रूप-रेखा।
- हिन्दी शिक्षण के अनुवाद का अर्थ, विशेषताएं, प्रशिक्षण, विधियां एवं अभ्यास।

(4)

- कविता-शिक्षण (रस पाठ एवं बोध पाठ के रूप में)
- पद्य-शिक्षण

इकाई ३

(5)

- व्याकरण शिक्षण (औपचारिक एवं अनौपचारिक)
- रचना शिक्षण (कहानी, पत्र एवं निबन्ध रूप में)

(6)

- हिन्दी पाठ्यक्रम निर्माण एवं समीक्षा।
- हिन्दी पाठ्यपुस्तक की विशेषताएं एवं समीक्षा।

इकाई ४

हिंदी में मूल्यांकन एवं गृहकार्य

(अ) हिंदी में मूल्यांकन- अर्थ एवं स्वरूप

(आ) विद्याओं में मूल्यांकन प्रक्रिया

(इ) हिंदी शिक्षण में गृहकार्य- स्वरूप एवं संशोधन

१ हिंदी पाठ्य वस्तु से अभिप्राय

२ हिंदी पाठ्य वस्तु का शिक्षा शास्त्रीय विश्लेषण

प्रयोगात्मक क्रियाएँ

(अ) माध्यमिक कक्षाओं के हिंदी पाठ्यक्रम में से किन्हीं दो पाठों (गद्य, पद्य,

- निबन्ध, कहानी, नाटका आदि) का शिक्षा शास्त्रीय विश्लेषण
 (आ) निबंधात्मक, लघुत्तर एवं वस्तुनिष्ठ परीक्षा के लिए प्रश्न पत्र निर्माण
 (इ) पाठशालाओं में हिंदी की पाठ्यक्रम सहगामी क्रियाओं की व्यवस्था करना

संदर्भ ग्रंथ सूची

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- सुखिया, के.के (1976) : हिंदी ध्वनियां और उनका शिक्षण, रामनारायण लाल, इलाहाबाद
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- सिंह, निरजंन कुमार (1971) : माध्यमिक विद्यालयों में हिंदी शिक्षण, राजस्थान हिंदी ग्रंथ
- बाहरीण, हरदेव (1972) : व्यावहारिक हिंदी व्याकरण लोक भारती प्रकाशन, इलाहाबाद
- मंगल, अमर(1991) : हिंदी शिक्षण, देहली, आर्य बुक डिपो
- पाण्डे, आर.एस.(1992) : हिंदी शिक्षण, आगरा, विनोद पुस्तक मन्दिर
- सिंह सावत्री (1992) : हिंदी शिक्षण मेरठ, तायल बुक डिपो
- श्रीवास्तव, राजेन्द्र प्रसाद (1973): हिंदी शिक्षण दि मैकमिलन कम्पनी ऑफ इंडिया लि, देहली
- मैन्युक ही (1997) : हिंदी शिक्षण, दी एक्यूजीशन एंड डवलपमैण्ड ऑफ लैगवेज प्रिंटिंग हाल
- वैस्टन कैनिप (1973) : डवलपिंग सैकिड लैगवेज स्किल्स थरौरी एण्ड पैक्टिस रैप्स मैकलील
- मंगल, उमा : टीचिंग ऑफ हिंदी आर्य बुक डिपो
- मिश्रा माया तथा जैन एस.वी. : टीचिंग ऑफ हिंदी विजया पब्लिकेशन
- कौशिक जयनारायण : हिंदी शिक्षण हरियाणा साहित्य अकादमी, चण्डीगढ़
- पांडेय रामशक्ल : हिंदी शिक्षण विनोद पुस्तक मन्दिर, आगरा
- सफाया रघुनाथ : हिंदी शिक्षण रस्तोगी पब्लिकेशन, मेरठ

Paper-VI & VII (Group A) Opt. (ii): TEACHING OF ENGLISH**Time: 3 Hours****Max. Marks: 100****NOTE FOR PAPER SETTER**

- i) Paper setters will set 9 questions in all, out of which students will be required to attempt 5 questions.
- ii) Q. No. 1 will be compulsory and carries 20 marks. It will be comprised of 4 short- answer type questions of 5 marks each to be selected from the entire syllabus.
- iii) Two long-answer type questions will be set from each of the four units, out of which the students will be required to attempt one question from each unit. Long-answer type questions will carry 20 marks each.
- iv) All questions will carry equal marks.

OBJECTIVES

Pupil-teachers would be able to-

- explain the concept of English and its elements
- define linguistic skills and process of development among pupils
- conduct pedagogical analysis and develop teaching skills.
- explain the concept of evaluation and methods of evaluating the performance of students.
- critically explain various teaching methods.
- demonstrate language competencies.

COURSE CONTENTS**UNIT-I**

- 1) Language and distinctive features of English
 - Meaning, importance and functions of language
 - Linguistic characteristics of English
 - Linguistic Principles, and Aims and objectives of teaching English.
- 2) Pedagogical analysis- Objectives and Lesson Planning (Unit analysis)
 - Teaching of prose

- Teaching of poetry
- Teaching of composition and
- Teaching of grammar (Micro and Mega Lesson)

UNIT-II

- 3) Learner centered approaches and Methods of Teaching
 - Difference between 'Approach' and 'Method'.
 - Direct Method, Bi-lingual method, Communicative Approach and Constructive Approach(co-operative Learning)
 - Teaching of prose, poetry and grammar- objectives and methodology
- 4) Instructional Material:
 - Importance and their effective use.
 - Tape Recorders, Television
 - Films, Filmstrips, OHP
 - Language Laboratory: An important Instructional aid
 - Concept
 - Components

UNIT-III

- 5) Developing Language Skills- Listening and Speaking
 - Features of English Pronunciation, elementary knowledge of English sounds.
 - Stress, Rhythm, Juncture, intonation, patterns and their implications..
- 6) Developing Language Skills - Reading and Writing
 - Teaching mechanism of Reading.
 - Teaching reading to beginners
 - Teaching reading with comprehension.

UNIT-IV

- 7) Co-curricular activities related to English
 - Usefulness of language games, quiz, debates, group-discussions and other co-curricular activities in the teaching and learning of English.

8) Remedial and Enrichment content

- Meaning and significance of remedial teaching
- Common errors in English and their removal through remedial teaching

9) Evaluation Procedure

- Evaluation- Comprehensive and continuous, and Objective-type and Essay-Type Questions.
- Digital Portfolio: Use of ICT in learning exercise for Language Competency.

SUGGESTED READINGS

1. Crown, G (1977). Listening to Spoken English. London: Longman.
2. Christopherson, P. (1972). Second Language learning, New Delhi: Penguin.
3. Chaturvedi, M. G (1973). A Contrastive Study of Hindi-English Phonology, New Delhi: National Publishing.
4. Dodson, C. J. (1972). Language Teaching & the Bilingual Method, Pitman Publishing.
5. Erben, T., Ban, Ruth and Castaneda, Martha (2009). Teaching English Language Learners through Technology, New York: Routledge.
6. Frisby, A. W. (1970). Teaching English: Notes and Comments in Teaching English Overseas, London: E.L.B.S.
7. Girad, B. (1972). Linguistics and foreign Language Teaching, London: Longman
8. Hayes, B. L. (ed.) (1991). Effective strategies for teaching reading, London: Allyn & Bacon
9. Nation, I. S. P. (2009). Teaching ESL/ EFL Reading and Writing, New York: Routledge.
10. Sachdeva, M.S. (2007). Teaching of English, Patiala: Twenty First Century Publications.
11. Wilkins, D. A. (1983). Linguistics in English Teaching. London: Edward Arnold ELBS Edition

PAPER-VI & VII (Group A) Opt. (iii):**TEACHING OF PUNJABI****Time: 3 Hours****Max. Marks: 100****NOTE FOR PAPER SETTER**

- i) Paper setters will set 9 questions in all, out of which students will be required to attempt 5 questions.
- ii) Q. No. 1 will be compulsory and carries 20 marks. It will be comprised of 4 short- answer type questions of 5 marks each to be selected from the entire syllabus.
- iii) Two long-answer type questions will be set from each of the four units, out of which the students will be required to attempt one question from each unit. Long-answer type questions will carry 20 marks each.
- iv) All questions will carry equal marks.

OBJECTIVES

Pupil-teachers would be able to-

- develop awareness about basic concepts related to teaching of Punjabi at the secondary level
- impart training in various skills e.g. language skills, use of techniques of evaluation, teaching skills (micro-teaching skills)etc.
- enable pupil teachers to use current method of teaching Punjabi

COURSE CONTENTS**UNIT-I**

- 1) Nature of Punjabi Language, Aims and Objectives and Principles of Teaching.
 - The nature and importance of language - its origin and development
 - Origin and development of Punjabi language and its script
 - Role of mother tongue in the education of a child
 - Aims & objectives of teaching of Punjabi
 - General Principles and maxims of teaching of Punjabi

2) Development of Language skills

- Listening
- Speaking
- Reading
- Writing

UNIT-II

3) Development of Micro lessons based on skills of questioning, explaining, illustration and stimulus variation.

Role of language activities

- Debates
- Recitation
- Story telling
- Symposium

4) Methodology

Modern methods of teaching language with specific references to:

- Project method
- Play way method
- Discussion method
- Correlation method
- Observation method

UNIT-III

5) Methods of teaching of prose, poetry, composition and grammar

6) Preparation of lesson plans for each of the above aspects of language.

UNIT-IV

7) Instructional Material

- Audio-visual aids meaning, importance and their kinds Proper use of these in teaching of Punjabi
- Construction of the curriculum of Punjabi language, critical appraisal of Punjabi curriculum at secondary school level

- Qualities of a good Punjabi text book, criteria governing the construction of Punjabi text books.

8) Evaluation:

- Modern concept of evaluation in Language
- Different types of techniques and tests for evaluating different language skills.
- Construction of
 - ♦ Oral type tests
 - ♦ Short-answer type tests
 - ♦ Objective-type tests
 - ♦ Essay-type tests
 - ♦ Diagnostic tests

SUGGESTED READINGS

1. Singh, G.B. (1981). Gurumukhi Lipi Da Janam Te Vikas, Chandigarh: Punjab University Publication Bureau
2. Singh, G (1971). Gurumukhi Lipi Bare, Ludhiana: Lahore Book Shop
3. Singh, H. (1966). Punjabi Bare, Patiala: Punjabi University
4. Sckhon, S. S. & Singh, P. P. (1961). Punjabi Boli Da Itihas, Punjab: Bhasha Vibhag

Paper-VI & VII (Group A) Opt (iv):**TEACHING OF SANSKRIT****Time: 3 Hours****Max. Marks: 100****NOTE FOR PAPER SETTER**

- i) Paper setters will set 9 questions in all, out of which students will be required to attempt 5 questions.
- ii) Q. No. 1 will be compulsory and carries 20 marks. It will be comprised of 4 short- answer type questions of 5 marks each to be selected from the entire syllabus.
- iii) Two long-answer type questions will be set from each of the four units, out of which the students will be required to attempt one question from each unit. Long-answer type questions will carry 20 marks each.
- iv) All questions will carry equal marks.

OBJECTIVES

Pupil-teachers would be able to-

- explain the nature, need & principles of Sanskrit language
- describe different methods of teaching Sanskrit
- demonstrate the use of various audio visual aids
- explain the objectives and steps of teaching prose, poetry, composition & grammar of Sanskrit
- define the meaning of evaluation and types of evaluating techniques
- explain and organise different type of co-curricular activities related to Sanskrit. (Shloka Recitation, Lecture, Dramatization and other creative competitions)

COURSE CONTENTS

इकाई १

१. संस्कृत भाषा एवं साहित्य का ऐतिहासिक तथा वर्तमान अवलोकन
 - संस्कृत भाषा की पाठ्यक्रम में अनिवार्यता (उद्देश्य)
२. संस्कृत भाषा शिक्षण में सामान्य सिद्धान्त तथा सूत्र
 - संस्कृत भाषा शिक्षण में श्रवण तथा पठन का अभ्यास।

इकाई २

३. संस्कृत भाषा शिक्षण की विधियाँ
 - पाठशाला विधि
 - पाठ्यपुस्तक विधि
 - प्रत्यक्ष विधि
 - व्याकरण अनुवाद विधि
४. संस्कृत पाठ्य पुस्तक निर्माण
५. संस्कृत अध्यापक तथा दृश्य श्रव्य साधन प्रयोग

इकाई ३

६. संस्कृत में विधाओं का शिक्षण
 - संस्कृत में गद्य-शिक्षण-प्रक्रिया. उद्देश्य तथा सोपान
 - संस्कृत में पद्य-शिक्षण- प्रक्रिया. उद्देश्य तथा सोपान
 - संस्कृत में व्याकरण शिक्षण -प्रक्रिया. उद्देश्य तथा सोपान
 - संस्कृत में रचना शिक्षण - प्रक्रिया .उद्देश्य तथा सोपान
 - संस्कृत में अनुवाद शिक्षण- प्रक्रिया. उद्देश्य तथा सोपान
७. संस्कृत भाषा ज्ञान का मूल्यांकन, अर्थ, परीक्षाओं के प्रकार
(निबंधात्मक, वस्तुनिष्ठ, लघूत्तर, अभीष्ट)
- गृहकार्य नियोजन एवं संशोधन प्रक्रिया।
- संस्कृत भाषा की सहपाठ्य क्रियाएं
(श्लोकोच्चारण, भाषण, अभिनयीकरण एवं रचनात्मक प्रतियोगिताएं)

इकाई ४

- संस्कृत भाषायी कौशल
 - संस्कृत में उच्चारण शिक्षण - अशुद्धि उच्चारण के प्रकार, व्याकरण तथा सुधार के उपाय।
 - संस्कृत में अक्षर-विन्यास शिक्षण-सामान्य अशुद्धियां, कारण तथा निवारण के उपाय। सुलेख कार्य।
 - ६. संस्कृत विषय वस्तु
 - धातु रूप-पठ्, लिख्, अस्, भू, कृ (लट् तथा लैँ लकार)
- शब्द रूप- राम, हरि, नदी, लता
- प्रत्यय- (अनीयर्, तव्यत्) समास (बहुव्रीहि द्वन्द्व)
 - शब्दार्थ तथा अनुवाद (८वीं तथा १०वीं हरियाणा बोर्ड के पाठ्यक्रम से)

संस्कृत शिक्षण हेतु अनुमोदित पुस्तकें

१. सफाया, रघुनाथ संस्कृत-शिक्षण, चण्डीगढ़: हरियाणा हिंदी ग्रंथ, चण्डीगढ़।
२. पाण्डेय राम शुक्ल संस्कृत-शिक्षण, आगरा एकादमी: विनोद पुस्तक मंदिर, आगरा।
३. बोकी वी.पी. ए एपशेच टू टीचिंग, पूना: लखशानगढ़ प्रैस।
४. आप्टे डी.जी. टीचिंग ऑफ संस्कृत, बम्बई: पदमा पब्लिकेशन्स।
५. सफाया, रघुनाथ संस्कृत शिक्षण विधि, जालंधर: पंजाब किताब घर।
६. आप्टे डी.जी. डोंगरे पी.के., टीचिंग ऑफ संस्कृत इन सैकेण्डरी स्कूल, बड़ौदा: आचार्य बुक डिपो।
७. हुफरेकर। द प्रोब्लम ऑफ टीचिंग ऑफ संस्कृत कोल्हापुर: भारत बुक स्टॉल।
८. मिश्र प्रभा शंकर : संस्कृत शिक्षण।
९. हंस चक्रधर: अनुवाद चंद्रिका, मोतीलाल बनारसी दास, जवाहर नगर, दिल्ली।
१०. शास्त्री सत्यवीर: टीचिंग ऑफ संस्कृत, लक्ष्मी बुक डिपो।
११. मित्तल संतोष: टीचिंग ऑफ संस्कृत, आर.एल. बुक डिपो, २००८

PAPER-VI & VII (Group B) Opt. (i):**TEACHING OF MATHEMATICS****Time: 3 Hours****Max. Marks: 100****NOTE FOR PAPER SETTER**

- i) Paper setters will set 9 questions in all, out of which students will be required to attempt 5 questions.
- ii) Q. No. 1 will be compulsory and carries 20 marks. It will be comprised of 4 short- answer type questions of 5 marks each to be selected from the entire syllabus.
- iii) Two long-answer type questions will be set from each of the four units, out of which the students will be required to attempt one question from each unit. Long-answer type questions will carry 20 marks each.
- iv) All questions will carry equal marks.

OBJECTIVES

Pupil-teachers would be able to-

- define Meaning, Nature, aims and objectives of Mathematics
- explain the relationship of Mathematics with other subjects
- explain Historical development and contribution of Indian Mathematics.
- familiarize the pupil-teachers with the development of Curriculum in Mathematics
- differentiate between Methods and Techniques of Teaching Mathematics
- perform Pedagogical Analysis of various Concepts in Mathematics
- describe instructional planning and development of relevant material for the teaching of Mathematics
- demonstrate uses of I.C.T. in Teaching of Mathematics
- describe Continuous and Comprehensive evaluation, diagnostic testing and remedial teaching in Mathematics
- explain importance and uses of learning resources in Mathematics

COURSE CONTENTS**UNIT-I**

- 1) Concept and aims of Mathematics
 - Meaning, Nature and Historical Development of Mathematics.
 - Assumption, postulates, axiom of Mathematics, and Fundamentals of logic namely: use of if and then, and If and only If.
 - Values to be taught through teaching of Mathematics.
 - Aims and Objectives of Teaching Mathematics at Secondary stage.
 - Writing objectives in terms of behavioural outcomes of students.
- 2) Diagnostic Testing and Remedial Teaching for
 - Gifted Learners
 - Slow Learners
 - Learners with Dyscalculia
 - Difficulties Faced by the Teacher in Teaching of Mathematics and Suggestive Measures to overcome them.

UNIT-II

- 3) Methods of Teaching Mathematics
 - Lecture-cum-Demonstration
 - Inductive-Deductive
 - Analytic-Synthetic
 - Problem Solving
 - Laboratory
 - Project
- 4) Techniques of Teaching Mathematics
 - Oral work
 - Written Work
 - Drill-work
 - Brain-storming
 - Home Assignment

- Self-study
- Supervised Study

UNIT-III

5) Learning Resource

- Importance and Organization of Mathematics Club
- Recreational Activities of Mathematics Club:
 - Mathematics Fairs
 - Games
 - Quiz
 - Puzzles
 - Visits
 - Talks
- Visits, Excursions, Math Exhibitions and Mathematics Fairs.
- Importance and Setting up of Math Laboratories.
- Importance of Support Material:

Reference Material - Encyclopedia, News Letters and Magazines.

On-line and off-line Resources.

6) Instructional Planning & Material Development.

- Preparation of Micro Lesson Plan
- Preparation of Simulated Lesson Plan.
- Preparation of Classroom Lesson Plan.
- Preparation and use of Audio-Visual Material and equipments.
- Application of I.C.T in Teaching of Mathematics.

UNIT-IV

7) Unit Analysis

- Objectives Formulation.
- Learning Experience.
- Choosing Method and Material.
- Evaluation.

8) Pedagogical Analysis of any one of the following-

- Central tendencies Mean, Median, Mode.
- Congruency
- Trigonometry
- Area
- Volume
- Linear and Quadratic Equations
- Ratio and Proportion

Following points should be followed:

- Identification of concepts.
- Listing behavioural Outcomes.
- Listing Activities and experiences
- Listing Evaluation Techniques.

9) Evaluation.

- Continuous and Comprehensive Evaluation
- Development of Test Items
 - Short-Answer Type
 - Objective-Type
- Diagnostic Testing and Remedial Teaching
- Preparation of an Achievement Test.
- Criterion and Norm Referenced Test.

SUGGESTED READINGS

1. Butler, C. H. & Wren, K. H. (1980). The teaching of Secondary Mathematics, New York: McGraw-Hill Book Comp.
2. Carey, L.M. (1975). Measuring and Evaluating School Learning, Boston: Allyn and Bacon.
3. Copeland, R. W. (1979). How Children Learn Mathematics, New York: McMillan Pub. Comp.
4. Dave, R. H. & Saxena, R. C. (1970). Curriculum and Teaching of Maths in Secondary Schools, A Research Monograph. Delhi: NCERT
5. David Wood (1988). How Children Think and Learn, Oxford U.K.: Blackwell Publishers Ltd.
6. Davis, D.R. (1951). The Teaching of Mathematics, London: Addison Wesley Press.

7. Intel (2003). Intel innovation in Education, Intel Tech to the Future- Students Work Book
8. Kapur, J.N. (1991). Suggested Experiments in School Mathematics, New Delhi: Arya Book Depot
9. Jain, S. L. (1973). Ganit Shikshan, Jaipur: Hindi Granth Academy
10. Joanna O. Masingila & Frank K. Lester (1988). Mathematics via Problem Solving (Student Resource), New York: Printice Hall Inc.
11. Kapoor, J. N. (1988). Vidyalaya Ganik ke Liye San Prayog, New Delhi: Arya Book Depot
12. Kulshrestha, A. K. (2007). Teaching of Mathematics. Meerut: R. Lall Book Depot
13. Mangal, S. K. (2007). Teaching of Mathematics, New Delhi: Arya Book Depot
14. Shankaran & Gupta, H. N. (1984). Content-cum-Methodology of Teaching Mathematics, New Delhi: NCERT
15. Thomas, A. S. (1993). Mathematics for Elementary Teachers (An Interactive Approach), Florida: HBJ Publishers

PAPER-VI & VII (Group B) Opt. (ii):**TEACHING OF HOME SCIENCE****Time: 3 Hours****Max. Marks: 100****(Theory: 80, Internal: 20)****NOTE FOR PAPER SETTER**

- i) Paper setters will set 9 questions in all, out of which students will be required to attempt 5 questions.
- ii) Q. No. 1 will be compulsory and carries 16 marks. It will be comprised of 4 short- answer type questions of 4 marks each to be selected from the entire syllabus.
- iii) Two long-answer type questions will be set from each of the four units, out of which the students will be required to attempt one question from each unit. Long-answer type questions will carry 16 marks each.
- iv) All questions will carry equal marks.

OBJECTIVES

Pupil-teachers would be able to-

- develop understanding of the aim of teaching of Home Science
- develop understanding of the various methods and procedures required for teaching Home Science effectively
- develop basic skills and competencies required for teaching of Home Science
- develop practical skill to organize various activities related to Home Science
- develop skills and competencies required for preparing teaching-aids in teaching of Home Science
- develop competencies and skill for effective evaluation in Home Science

COURSE CONTENTS**UNIT-I**

- 1) Home Science
 - The Concept, meaning and components

- Place of Home Science in Secondary Education.
- Aims and Objectives of teaching of Home Science.
- 2) Writing objectives in behavioural terms
- Correlation of Home Science with other school subjects.

UNIT-II

3) Content and Pedagogical Analysis

- Foods, Nutrition & Health
- Child Care
- Fiber and Fabric

4) Home management

- Importance of planning
- Principles of budget making
- Hygiene and sanitation

UNIT-III

5) Methods of Teaching and Micro-teaching Skills

- General principles and methods of teaching-Project method, Discussion method, Demonstration, Practical and Individual work
- Micro-teaching skill-Explaining, Questioning, Illustration and Stimulus Variation.

6) Home Science Laboratory

- Concept and importance
- Planning of space and equipment for Home Science Laboratory

UNIT-IV

7) Curriculum, Teaching Aids, Lesson Plan, Textbook and Home Science Laboratory

- Development and designing of curriculum
- Teaching aids-classification and importance
- Concept of lesson plan, preparation of lesson plan
- Development of text-books

8) Evaluation

- Evaluation in Home Science-Meaning and importance of evaluation

- Comprehensive and continuous evaluation
- Evaluation devices-written, oral, observation, practical work, assignment

Practicum /Sessionals (To be evaluated by the Internal Examiner)

Max. Marks: 20

Submit Report on any one of the following activities:

1. A course of ten practical by the Pupil-teacher in the following:
 - Cooking - Its types
 - Stitching/Embroidery/knitting
 - Home Management
2. Writing of project report in extension education.
3. Preparation of test items (50) - Objective type, short-answer type, and essay-type.

SUGGESTED READING

1. Chandra, Shah & Joshi. *Fundamental of Teaching of Home Science*, New Delhi: Sterling Publishers Pvt. Ltd
2. Dass & Ray. (1983) *Teaching of Home Science*, New Delhi: Sterling Publishers Pvt. Ltd
3. Devdass, R. P. *Method of Teaching of Home Science*, New Delhi: NCERT.
4. Devdass, R. P. *Teaching of Home Science in Secondary School. A handbook of Suggestion for Teachers*, New Delhi: NCERT
5. Spafford, I. *Fundamental in Teaching of Home Science*, New York: John Wiley & Sons.
6. Sheri, G. P. & Saran, D. P. (2008). *Teaching of Home Science*, Delhi: Vinod Pustak Mandir.
7. Sukhia, S. P. & Malhotra, P. V. (1976). *Teaching of Home Science*, Chandigarh: Haryana Hindi Garanth Academy, Yadav, Seema. (2001). *Teaching of Home Science*, New Delhi: Anmol Publications.

PAPER-VI & VII (Group-B) Opt. (iii):

TEACHING OF COMMERCE

Time: 3 Hours

Max. Marks: 100

NOTE FOR PAPER SETTER

- i) Paper setters will set 9 questions in all, out of which students will be required to attempt 5 questions.
- ii) Q. No. 1 will be compulsory and carries 20 marks. It will be comprised of 4 short- answer type questions of 5 marks each to be selected from the entire syllabus.
- iii) Two long-answer type questions will be set from each of the four units, out of which the students will be required to attempt one question from each unit. Long-answer type questions will carry 20 marks each.
- iv) All questions will carry equal marks.

OBJECTIVES

Pupil-teachers would be able to-

- develop understanding of Importance and Principles of Commerce.
- acquire knowledge of present Commerce conditions in India.
- acquire competencies necessary for a Commerce teaching.
- develop the competencies of a Commerce teacher with the present needs of the environment.

COURSE CONTENTS

UNIT-I

- 1) Nature and Concept of Accountancy and Business studies
 - Meaning, nature and scope of Accountancy and Business studies
 - Values in Commerce education.
 - Aims, objectives and importance of teaching Accountancy and Business Studies.
 - Stating objectives in behavioural terms (Bloom's taxonomy of

objectives.)

2) Content and their Pedagogical Analysis

- Double entry System
- Final Accounts
- MNCs
- Organisational Management

Unit -II

3) Following points should be followed for pedagogical analysis along with a project report after visiting an industry or Bank:

- Identification of concept
- Listing behavioral outcomes
- Listing activities and experiments.
- Listing evaluation techniques.

4) Development of Instructional Material.

- Development and designing of Curriculum
- Analysis of prescribed text book.
- Development of self-instructional material modules.
- Development/Utilization of Teaching aids.- Models, Graphs, Charts, Computers with LCD, Internet.
- Development of lesson plan.

UNIT-III

5) Methods of Teaching

- Lecture Method
- Discussion Method
- Problem-Solving method
- Project Method
- Role Playing with its application in class room situation.

6) Skills of Teaching

- Skill of Introducing lesson
- Skill of Stimulus Variation
- Skill of Explaining
- Skill of Probing Questions

- Illustration with Example

UNIT-IV**7) Evaluation**

- Meaning and Importance
- Types of Evaluation
- Achievement test- Meaning, uses, and Preparation of Achievement test
- Item analysis

SUGGESTED READINGS

1. Aggarwal J.C. (1993). Documents on Higher Education in India - 1781-1982. Delhi : Doaba House
2. Aggarwal, A.N. (1995). Business Methods & Machinery, Part I & II, Allahabad: Kitab mahal
3. Aggarwal, J.C. Teaching of Commerce, Vikas Publications house Pvt. Ltd.
4. Board of Secondary Education Rajasthan, Objectives of teaching Commerce, Rajasthan: Board of Secondary Education
5. Gupta U.C. (2007). Teaching Commerce, (ISBN No. 81-903668-5-8
6. P.C. Segwalkar & Sarlekar: The structure of Commerce, (2000) Allahabad: Kitab Mahal
7. Popham, Schrag & Blockhus (1975). A Teaching and Learning System for Business Education, New York: McGraw-Hill
8. Rao, S. (1995). Teaching of Commerce, New Delhi: Publications Pvt. Ltd
9. Satlow, I.D. (1964). Teaching of Business Subjects Effectively, New York: Prentice- Hall Inc.
10. Shankar T.(2007). Methods of Teaching Commerce, New Delhi: Crescent, VIII, ISBN No. 81-8342-063-X
11. Tonne, H.A., Popham, E.L. & Freeman, M.H. (1965). Methods of Teaching Business Subjects, New York: McGraw-Hill book Company
12. UGC. (1998). Report of the Curriculum Development Centre in Commerce New Delhi: UGC

PAPER VI & VII (Group B) Opt (iv): TEACHING OF ARTS**M.M. 100****Time: 3 Hours****(Theory:80, Internal 20)****NOTE FOR PAPER SETTER**

- i) Paper setters will set 9 questions in all, out of which students will be required to attempt 5 questions.
- ii) Q.No. 1 will be compulsory and carries 16 marks. It will be comprised of 4 short- answer type questions of 4 marks each to be selected from the entire syllabus.
- iii) Two long-answer type questions will be set from each of the four units, out of which the students will be required to attempt one question from each unit. Long-answer type questions will carry 16 marks each.
- iv) All questions will carry equal marks.

OBJECTIVES

Pupil teachers would be able to-

- develop an understanding of the place of Art in Education of the child.
- develop competencies and skills for teaching of Art.
- develop an understanding and insight into the stages of 'Art' development in children at various age levels.
- develop competencies and skills of the methods and techniques, in teaching of 'Art' of different kinds.
- develop competencies in evaluating some products of Art.

COURSE CONTENT**Unit I**

- (i) Art and meaning of Visual Communication
- (ii) Appreciation of Art
- (iii) Art in daily Life
- (iv) Art in Education

Unit II

- (i) Methods and material of Art through the ages encaustic, oil, tempera, Fresco etc.
- (ii) Modern Art movements, Abstraction, Cubism, Expressionism, Realism, Impressionism, Romanticism.

Unit III Methods of Teaching Art

- (i) Qualities of an Art Teacher and his role in Education
- (ii) How to prepare lesson notes for Art classes?
- (iii) How to prepare Art Syllabus for Art classes?
- (iv) How to teach Still life, Designs, Nature-Study and Painting-Composition.
- (v) Class room Decoration

Unit IV

- (i) Stages of development in Children's Art
- (ii) How to teach Art in Primary, Middle, High and Higher Secondary classes, the material required, amount of time necessary and the size of the class?
- (iii) Relation of Art and Craft with other School subjects and the importance of Art and Craft Exhibitions in Education.

Practical - (To be evaluated by the Internal Examiner) 20 marks

- (a) Landscape from memory: Simple composition in connection with common flowers, mountains, sky, huts, water, bridge, birds, animals and human figures in action in any medium on a quarter sheet of drawing paper.
- (b) Decoration designs: Pictorial composition in water or tempera.
- (c) Still Life Drawing and Painting of Group of two or three simple objects in any medium.
- (d) Poster: will include writing of Block and script Letters in English/Hindi/Punjabi/Urdu with nibs or brush in ink or colour.
- (e) Collage making
- (f) Presentation of Art-Work

Recommended Books

1. Jeswani, K.K. Art in Education, Atma Ram & Sons
Kashmiri Gate, Delhi-6
2. Road, H. Education through Art, Faber and Faber London
3. Lowen Feld, V. Creative and mental Growth, Macmillan Co.,
New York
4. Jeswani, K.K. Appreciation of Art, Atma Ram and Sons,
Kashmiri Gate, Delhi-6.
5. Tolstoy, What is Art? An essay on Art, Oxford University Press,
New York.
6. Brown, Percy. Indian Paintings.
7. Chilvers, Ian. The Oxford Dictionary of Art.
8. Gulia, Bhup Singh. The Traditions of Northern India (A study
of Art, Architecture and Craft in Haryana) Subhi Publications,
City Centre, Gurgaon (HR).
9. Fichner, Lois. & Rathus. Understanding Art, Prentice-Hall
International (U.K.) Ltd. London
10. Singh, Chitrlekha. Publication Vinod Pustak Mandir, Agra-2.

PAPER-VI & VII (Group C) Option-(i):**TEACHING OF LIFE SCIENCES****Time: 3.00 Hours****Max. Marks: 100****NOTE FOR PAPER SETTER**

- i) Paper setters will set 9 questions in all, out of which students will be required to attempt 5 questions.
- ii) Q. No. 1 will be compulsory and carries 20 marks. It will be comprised of 4 short- answer type questions of 5 marks each to be selected from the entire syllabus.
- iii) Two long-answer type questions will be set from each of the four units, out of which the students will be required to attempt one question from each unit. Long-answer type questions will carry 20 marks each.
- iv) All questions will carry equal marks.

OBJECTIVES

Pupil teachers would be able to-

- develop awareness about development in the area of teaching and learning of Life Science at the national and international level
- develop competencies in the prospective teachers related to Life Science at the lower secondary level with specific reference to Indian School Conditions
- orient prospective teachers in specific educational aspects of Science and Technology Education e.g. general concept of Life Science, aims and objectives of Life Science, pedagogical analysis of contents in Life Science at the lower secondary level, transaction of contents, methods of teaching, evaluation etc.
- enable prospective teachers to be effective teachers in order to perform the required role as a Life Science teacher under Indian School conditions

COURSE CONTENTS**Unit-I****I. Importance, Aims and Objectives**

- Importance of Life Science in School Curriculum.

- General Aims and Objectives of teaching Life Science.
- Bloom's taxonomy of Educational Objectives.
- Formulation of specific objectives of Life Science in Behavioural terms.

II. Contents and Pedagogical Analysis

1. Contents

- Photosynthesis
- Human systems- Digestive, Respiratory, Excretory, Circulatory systems.
- Cell structure.
- Micro-organism.
- Food Chain
- Ecological balance.

2. Pedagogical analysis

Following points should be followed for pedagogical analysis.

- Identification of concepts.
- Listing behavioural outcomes
- Listing activities and experiments.
- Listing evaluation techniques.

Teacher will demonstrate pedagogical analysis of any one of the topics mentioned under contents above-II (i) The examiner therefore can ask of pedagogical analysis of any of the given topics.

Unit-II

1. Development of Instructional Material

- Transaction of contents
- Unit Planning
- Lesson Planning
- Preparation of teaching aids.
- Development of aquarium, vivarium etc.
- Development of self-instructional material (Linear programme)

Unit-III**Methods of Teaching and Skills (Practical and Micro-teaching)****1. Methods of teaching**

- Lecture-demonstration method
- Project method
- Problem-solving method

2. Practical skills

- Preparation of temporary and permanent mounts
- Collection and preservation of specimen

3. Micro-teaching skills

- Skill of Introducing the lesson (set induction)
- Skill of Questioning
- Skill of Illustration
- Skill of Explaining
- Skill of Stimulus variation

Unit-IV**Evaluation**

- Concept of measurement and evaluation
- Formative evaluation
- Summative evaluation
- Different types of grading
- Attributes of a good achievement test
- Preparation of an objective type achievement test

Suggested Readings

1. Adams, (1964): Measurement and Evaluation in Education, Psychology and Guidance, New York: Holt, Rinehart and Winston
2. Bloom, B.S. et al (1956) Taxonomy of Educational objectives: The cognitive domain, New York: Longman's Green
3. Bremner, Jean, (1967): Teaching Biology, Macmillan, London.

4. Chhikara, M.S.(1982): Teaching of Biology (Life Science); Ludhiana, Praakash Brothers.
5. Green, T.C. (1967): The Teaching and learning Biology, Allman & Sons, London.
6. Gupta, V.K. (1994) : Life Science Education Today, Arun Publishing House Pvt.
7. Jangira, N.K. and Singh, Ajit (1983): Core Teaching Skills: The Micro Teaching Approach, New Delhi: NCERT.
8. Kilpatrick, W.H. (1918): The Project Method, Columbia, Teachers College Record.
9. Mangal, S.K. (2005): Teaching of Life Sciences, New Delhi, Arya Book Depot.
10. Miller, David, F. (1963): Methods and Materials for Teaching the Biological Science, Mc Graw Hill, New York.
11. NCERT (1969): Improving Instructions in Biology, New Delhi.
12. Novak, J.D. (1970): The Improvement of Biology Teaching.
13. Nunn, Gordon (1951): Handbook for Science Teachers in Secondary Modern Schools, John Murry, London.
14. Sharma, R.C. (1975): Modern Science Teaching, Dhanpat Rai & Sons, New Delhi.
15. Thurber, Walter (1964): Teaching of Science in Today's Secondary Schools, Prentice Hall, New Delhi.
16. Vaidya, N. (1971): The Impact of Science Teaching, New Delhi, Oxford and IB+I Publication.
17. Waston, N.S. (1967): Teaching Science Creativity in Secondary School, U.B. Saunders Company, London.

PAPER-VI & VII (Group C) Option-(ii):

TEACHING OF GEOGRAPHY

Time: 3.00 Hours

Max. Marks: 100

NOTE FOR PAPER SETTER

- i) Paper setters will set 9 questions in all, out of which students will be required to attempt 5 questions.
- ii) Q. No. 1 will be compulsory and carries 20 marks. It will be comprised of 4 short- answer type questions of 5 marks each to be selected from the entire syllabus.
- iii) Two long-answer type questions will be set from each of the four units, out of which the students will be required to attempt one question from each unit. Long-answer type questions will carry 20 marks each.
- iv) All questions will carry equal marks.

Objectives

The students will be able to:

- understand the important concepts used in Geography.
- prepare lesson plans for different classes.
- critically evaluate existing school syllabus and text-books.
- prepare/handle suitable teaching aids and use them effectively in the classroom.
- prepare diagnostic achievement test, administer them, analyse the results for providing feedback.
- pedagogical analysis of contents in Geography.

COURSE CONTENT

Unit-I

Concept, Objectives and Values

- Meaning, nature, scope of Geography.
- Values of teaching Geography.
- Aims of teaching Geography.
- Bloom's taxonomy of objectives.

- Formulation of specific objectives of Geography in Behavioural terms.

Unit-II

Contents and their Pedagogical Analysis

1. Contents

- Latitudes & Longitudes
- Rotation & Revolution
- Agents of denudation
- Physical division of India
- Cash crops of India

2. Pedagogical analysis of above units.

Unit-III

Development of Instructional Material

- Development and designing of curriculum
- Development of text-books.
- Development of self instructional material
- Self Instructional Modules
- P.L. Material (Linear style) packages.
- Development utilizing instructional aids.
- Maps, Atlas, Globes, Charts, Graphs, Models, Film strips, Slides utilization of T.V., Video, OHP, Computer.
- Development of lesson plan.
- Designing geography laboratory.

Unit-IV

Methods of Teaching & Skills involved in teaching

1. Methods of teaching

- Story telling
- Lecture-cum-discussion.
- Observation
- Discovery

- Problem-solving
 - Project Method
 - Laboratory
2. Skill in teaching
 - Explaining
 - Questioning
 - Illustrating with examples.
 - Stimulus variation
 - Skill of Map reading (using maps).
 3. Evaluation
 - Meaning and importance of evaluation, confirmation & continuous evaluation.
 - Evaluation devices-written, oral, practice Assignment, Daily working of the student.

Suggested Readings

1. Arora, K.L. (1976) : The teaching of Geography Parakash Brothers, Jalandhar.
2. Broadman, David. (1985) : New Directions in Geography Education, Fehur Press, London.
3. Philadiphla Ch. orely, R.J. (1970) : Frontiers in Geography, Teaching Mathews and Co. Ltd., London.
4. Dhamija, Neelam (1993) : Multimedia Approaches in Teaching Social Studies. Human Publishing House, New Delhi.
5. Graves, N.G. (1982) : New Source Books for Geography Teaching.
6. Longman, the UNESCO Press.
7. Hall David (1976): Geography Teacher, Unwin Education Books, London.
8. Huckle, J. (1983) : Geographical Educational Reflection and Action Oxford University Press, London.
9. Leong, Goh Chey (1976) : Certificate of Human and Physical Geography, Oxford University Press, London.

10. Morrey, D.C. (1972) : Basic Geography. Hien Manns Education Books Ltd., London.
11. Mohd. Z.U. Alvi (1984) : UNESCO Tadress Jugrafia, Taraggui Urdu Board, New Source Books of Teaching of Geography, UNESCO.
12. Verma, J.P. (1960) : Bhugol Adhyan, Vinod Pustak Mandir, Agra
13. Verma, O.P. (1984) : Geography Teaching, Sterling Publication Ltd., New Delhi.
14. Walford, Rex (1981) : Signposts for Geography Teaching, Longman, London.
15. UNESCO (1965) : Source Book for Geography Teaching, Longman, London.

PAPER-VI & VII (Group C) Option-(iii)

TEACHING OF ECONOMICS

Time: 3.00 Hours

Max. Marks: 100

NOTE FOR PAPER SETTER

- i) Paper setters will set 9 questions in all, out of which students will be required to attempt 5 questions.
- ii) Q. No. 1 will be compulsory and carries 20 marks. It will be comprised of 4 short- answer type questions of 5 marks each to be selected from the entire syllabus.
- iii) Two long-answer type questions will be set from each of the four units, out of which the students will be required to attempt one question from each unit. Long-answer type questions will carry 20 marks each.
- iv) All questions will carry equal marks.

OBJECTIVES

Pupil Teacher would be able to :

- develop understanding of economic principles for growth and development of the Indian economy
- acquire knowledge of present economic conditions in India
- acquire desirable attitudes and to become effective instrument of economic change
- become an effective citizen and good consumer
- acquire appropriate professional behaviour and to develop commitment to leading profession

COURSE CONTENTS

Unit-I

Meaning, Nature and Concept of Economics

- Meaning, Nature and Scope of Economics
- Place of Economics in secondary schools curriculum.
- Aims, objectives and values of teaching Economics.
- Bloom's taxonomy of objectives.
- Statement of objectives in behavioural terms.

Unit-II**Contents and their Pedagogical Analysis****I. Content**

- Wants and their classification
- Laws of return
- Population-its growth pattern, problems of over population, density of population.
- National income-meaning, methods of measurement.
- Teacher will demonstrate pedagogical analysis of any of the above topics. The students are expected to do pedagogical analysis of all the above topics. The examiner therefore can ask for pedagogical analysis of any one of the given topics.

II. Following points should be followed for pedagogical analysis :

- Identification of concepts.
- Listing behavioural outcomes.
- Listing activities and experiments.
- Listing evaluation techniques.

Unit-III**Development of Instructional Material**

- Development and designing of curriculum
- Development of text-books.
- Development of self-instructional material-modules.
- Development/utilization of instructional aids-Charts, Maps, Graphs, Tables, Models, Film Strips, T.V., Computer.

Unit-IV**Methods of Teaching & Skills of Teaching****1. Methods**

- Discussion method
- Problem solving method
- Project Method

2. Skills of Teaching Economics

- Skill of narration
- Skill of probing questions
- Skills of stimulus variation

3. Evaluation

- Meaning & Importance of evaluation
- Evaluation devices-written, oral, observation, records.

Preparation of unit test.

Suggested Readings

1. Arora, P.N. (1985) : Evaluation in Economics. NCERT, New Delhi.
2. Assistant Masters Association (1974) : The Teaching of Secondary School Economics. Cambridge University Press, London.
3. Boulding, K.E. (1960) : Economics Analysis (Volume-I) Micro Economics Harper and Row, New York.
4. Building, K.E. (1960) : Economics Analysis (Volume-II) Micro Economics, Harper and Row, New York.
5. Farroqu, S.A. & Ahmad (ed). Co-curricular activities in Schools, IASE, JMI, New Delhi.
6. Hicks, J.R. (1960) : The Social Frame Work An Introduction to Economics, Oxford University Press, London.
7. Kanwar, B.S. (1973) : Teaching of Economics, Prakash Brothers, Ludhiana, Khan Riaz Shakir, Arthshastra Shikshan, Kota Open University, B.E.-I 3.
8. Khan Riaz Shagr (1982) : Maashiyaal Kaise Parhaai, TUB, Delhi,
9. Khan, R.S. & Ahmed, I(eds) (1995) : Lesson Planning, IASE, JMI, New Delhi.
10. Lee N (Ed.). (1975) : Teaching Economics, Heinemann Education Books, London.
11. Robinson, K. & Wulson, R(ed) (1977) : Extending Economics within the curriculum, Routledge and Kegan Paul, London.

12. Siddqi, M.H. (1993) : Teaching of Economics, Ashish Publishing House, New Delhi.
13. Ruhela S.P. & Khan, R.S. Samajik Vigyan Shikshan : Kota Open University, B.E.-5.
14. Singh, Ramlal (1969) : Whitehead. Arthshastra Ka Shikshan. Shabad Sanacg, Ajmer.
15. D.J. (ed) (1974) : Curriculum Development in Economics Heinemann Education Books, London.
16. Whitehead, D.J. (ed) (1979) : Hand Book for Economics Teachers, Heinmann, Educational Books, London.
17. Bining A.C. and Bining, D.H. (1952). Teaching the Social Studies in Secondary Schools, McGraw Hill Book Company, New York.
18. Clark, L.H. and Starr, I.S. (1967) : Secondary School Teaching Method, MacMillan, London.
19. Daughterey, A.S. (1965) : Methods of Basic Business and Economic Education, South Western Publishing Co., Cineinnati.
20. DEPSE, (1960) : Evaluation in Social Studies, Ministry of Education, New Delhi.
21. Dhamija, Neelam (1993) Multimedia Approaches in Teaching Social Studies, Harmen Publishing House. New Delhi.
22. Lemsden, K.G. and Attiyeh, R. (1968) : Recent Researches in Economics Education, Prentice Hall, New York.
23. Moffat, M.R. (1995). Social Studies Instruction. Prentice Hall, New York.
24. Olve, J.M. (1973). The trends in economics. Heinmann Educational Books, London,
25. Sachs, I.(ed) (1973). Main Trends in Economics Case Studies in economics Projects and role playng in teaching Unit Tests in Economics, NCERT New Delhi, Report of Summer Course in Economics for Postgraduate Teachers, May 8 to May 28, 1973, Kendriya Vidyalaya Sangathan, New Delhi.

PAPER-VI & VII (Group C) Option-(iv)**TEACHING OF MUSIC****Time: 3 Hours****Max. Marks: 100****(Theory: 80, Internal: 20)****NOTE FOR PAPER SETTER**

- i) Paper setters will set 9 questions in all, out of which students will be required to attempt 5 questions.
- ii) Q. No. 1 will be compulsory and carries 16 marks. There will be 4 short-answer type questions of 4 marks each to be selected from the entire syllabus.
- iii) Two long answer type questions will be set from each of the four units, out of which the students will be required to attempt one question from each unit. Long-answer type questions will carry 16 marks each.
- iv) All questions will carry equal marks.

OBJECTIVES

Pupil Teachers would be able to :

- develop understanding of aims of teaching of music
- develop competencies and skills for teaching of Music
- develop understanding and awareness of the essential of music
- develop understanding of the importance of evaluative procedures in Music
- promote among the student-teachers Aesthetic sense, Time sense, tolerance and self-confidence

COURSE CONTENTS**UNIT-I**

- A brief history of Indian Music.
- Aims and objectives of Music as a subject in the School curriculum.
- Knowledge of Swaras-differences of Swaras and Sruti: Division of Swaras in measures of Sruti.

UNIT-II

- Possibilities of notation for Indian Music II
- Voice-culture-information about voice and culture and larynx.
- Knowledge of Motion and Rhythm.

UNIT-III

- Method of teaching Music.
- To prepare Lesson Plans.
- Qualities of Music Teacher-Gayak, Vada and Avadyakar.

UNIT-IV

- Aids of the teaching of Music.
- Importance of Classical Music, Suggestions for the popularization of classical Music.
- Evaluation in Music.

PRACTICAL (To be evaluated by the internal examiner)**M.Marks : 20****Time : 3 Hrs.**

1. Every candidate should be able to sing a fast Khyal or play a rezakhoni Gat with Tanas and Alaps or Jhala and Toras in each of the following Rages :

Bhupali, Bhairvi, Brindavani Sarag, Asawari, Bhimplashi, Malkauns, Kaffi.

Every candidate should be able to sing or play a slow Khyal (Vitambit Bara Khyal) or Masti Khayal Gat in Asawan and Malkauns Rag.

2. The following Tals are required to be practised in Tha's and Dvigun

Laya on Table :

1. Teen Tal
2. Dadra
3. Jhaptal
4. Dharva
5. Ektal

3. Tuning of the instrumental for the instrument player and tuning of the Janpura for vocal music students.

4. Candidate shall be able to read, write music notation either of Bhatkande or Vishnu Digamber Pulskar.

Suggested Readings

1. Madan, P.L. Teaching of Music (Hindi) Avasthis : Teaching of Music (Hindi) : Extension services, Govt. Training College, Jalandhar,
2. Ranaday. Indian Music (Its Physical and Aesthetics), Bhat Khande, Shor Historical Survey Bhatnagar, S. Teaching of Music Khanna, Jyoti teaching of Music Madam; Panna Lal, Teaching of Music. Patwardhau Rag Vigyan Goswami, Q. Indian Music
3. Samba,moorthy. P. Teaching of Music
4. Khanna, Jyoti, Teaching of Music, Tondon Publications.

Paper-VI & VII (Group C) Opt (v):**TEACHING OF COMPUTER SCIENCE****Time: 3 Hours****Max. Marks: 100****NOTE FOR PAPER SETTER**

- i) Paper setters will set 9 questions in all, out of which students will be required to attempt 5 questions.
- ii) Q. No. 1 will be compulsory and carries 20 marks. It will be comprised of 4 short- answer type questions of 5 marks each to be selected from the entire syllabus.
- iii) Two long-answer type questions will be set from each of the four units, out of which the students will be required to attempt one question from each unit. Long-answer type questions will carry 20 marks each.
- iv) All questions will carry equal marks.

OBJECTIVES

Pupil-teachers would be able to-

- explain the importance of computer science in school curriculum.
- define the aims and objectives of teaching computer science.
- explain Bloom's taxonomy of educational objectives.

COURSE CONTENTS**UNIT-I**

- 1) Importance, Aims and Objectives
 - Importance of Computer Science in School Curriculum.
 - General aims and objectives of Teaching Computer Science
 - Bloom's Taxonomy of Educational objectives
 - Formulation of Specific objectives in Behaviour terms
- 2) Contents & Pedagogical Analysis
 - Computer System
 - Operating System
 - Net-Working
 - M.S. Windows

- MS Office
- Information Technology & Computers.
- Pedagogical Analysis

Following points should be followed for pedagogical analysis:-

- Identification of concept
- Enlisting behavioural outcomes.
- Enlisting activities and experiments
- Enlisting evaluation techniques

Teachers will demonstrate pedagogical analysis of any one of the topics mentioned under contents above. The examiner, therefore, can ask the pedagogical analysis of any of the given topics.

UNIT-II

3) Instructional Planning

- Unit Planning
- Lesson Planning

4) Development and utilization of Instructional Material

- Development of Text Books
- Development of Self Instructional Material
- Development of Computer assisted instructional material
- Utilization of TV(Video), Films, OHP, Computer.

UNIT-III

5) Designing and Managing Computer Laboratory

- Importance of Computer Laboratory and its importance
- Physical conditions and layout of Computer Laboratory
- Managing a Computer Laboratory

6) Methods of Teaching

- Lecture -Demonstrative Method
- Inductive-Deductive Method
- Problem-Solving Method
- Project Method

UNIT-IV

7) Micro-Teaching Skills

- Skill of Introducing the lesson
- Skill of Questioning
- Skill of Illustration with examples
- Skill of Explaining
- Skill of Stimulus Variations

8) Evaluation

- Concept, need and importance, types of evaluation
- Formative Evaluation
- Summative Evaluation
- Attributes of Good Achievement Test
- Types of Tests used in Computer Science

SUGGESTED READINGS

1. Burton, W. H. (1972). Principles of History Teaching, London: Methuen
2. Chaudhary, K. P. (1975). The Effective Teaching of History in India, New Delhi: NCERT
3. Cox, J. & Urban, P. (1999). Quick Courses in Microsoft Office, New Delhi: Galgotia Publications
4. Jain, Satish. (1990). Introduction to Computer Science and Basic Programming, New Delhi: Prentice Hall of India
5. Saxena, S. (1998). A first Course in Computer, New Delhi: Vikas Publications
6. Sinha, P.K. (1990). Computer Fundamentals, New Delhi: BPB Publications
7. Tanenbaum, A.S. (1998). Computer Networks, New Delhi: Prentice-Hall of India
8. Intel (2003). Intel Innovation in Education, New Delhi: Student Work Book

PAPER-VI & VII Group D (Option-i)**TEACHING OF PHYSICAL SCIENCES****Time: 3 Hrs****M. Marks: 100****NOTE FOR PAPER SETTER**

- i) Paper setters will set 9 questions in all, out of which students will be required to attempt 5 questions.
- ii) Q. No. 1 will be compulsory and carries 20 marks. It will be comprised of 4 short- answer type questions of 5 marks each to be selected from the entire syllabus.
- iii) Two long-answer type questions will be set from each of the four units, out of which the students will be required to attempt one question from each unit. Long-answer type questions will carry 20 marks each.
- iv) All questions will carry equal marks.

OBJECTIVES

Pupil-teachers would be able to-

- develop awareness about developments in the area of teaching and learning of Physical Science at the national and international level
- develop competencies in the prospective teachers related to physical Science at the lower Secondary level with specific reference to Indian School Conditions
- orient prospective teachers in specific educational aspects of Science and Technology Education e.g. General Concept of Physical Science, aims and objectives of Physical Science, Pedagogical analysis of contents in Physical Science at the lower secondary level. Transaction of contents, methods of teaching, evaluation etc.
- enable prospective teachers to be effective teachers in order to perform the required role as a physical Science teacher under Indian school conditions.
- develop scientific attitude among prospective teachers

COURSE CONTENTS

UNIT-I**I. Concept**

1. Importance of Physical Science in School curriculum.
2. General aims and objectives of teaching Physical Sciences at Secondary School Stage.
3. Bloom's Taxonomy of educational objectives.
4. Formulation of specific objectives in behavioural terms.

II. Contents and Pedagogical analysis.**I. Contents**

1. Energy-types
2. Transmission of heat
3. Atomic Structure
4. Magnetism
5. Friction
6. Water as universal solvent

2. Pedagogical analysis of any one of the above topics

Following points should be followed for pedagogical analysis:

1. Identification of minor and major concepts
2. Listing behavioural outcomes.
3. Listing activities and experiments.
4. Listing evaluation procedure.

UNIT-II**III. Transaction of contents and Development of Instructional Material.****1. Transaction of contents**

1. Unit planning and lesson planning
2. Preparation of teaching aids
3. Development of demonstration experiments.
4. Co-curricular activities.

2. Development of self-learning material (Linear programme)**UNIT-III****IV. Methods of Teaching and Skills involved in teaching**

1. Methods of teaching

1. Lec-Demonstration method
2. Project Method
3. Problem-solving method
4. Inductive and Deductive Method
5. Heuristic Method

2. Skills

1. Practical demonstration-using Laboratory
2. Improvisation of apparatus
3. Skill of introducing the lesson (set induction)
4. Questioning
5. Skill of illustration with examples (visual)
6. Skill of explaining
7. Skill of using Black Board
8. Skill of stimulus variation

UNIT-IV**V. Evaluation**

1. Concept-Measurement and evaluation and grading
2. Formative evaluation
3. Summative evaluation
4. Diagnostic evaluation
5. Characteristics of a good test
6. Preparation of achievement test-objective tests.
7. Types of Examination

Suggested Readings

1. Anderson, R.D. (1970) : Developing Children's Thinking Through Science, Prentice Hall, New Delhi.
2. Carin, A.A. & Sund, R.D. (1976) : Teaching Science Through Discovery, Merit, Harvard project Physics, (1968) An Introduction to Physics (Vol -C).
3. Hurd Deart, P. (1971) : New Directions in Teaching School Science.
4. Rand McNally Co., Chicago.
5. Kuthiro, (1970) : Physics Teacher Guide, Parker Publishing Co., New York.

6. Lewis, J.L. (1971) : Teaching of School Physics, Longman Group Let. London.
7. Sharma R.C. (1981) : Modern Science Teaching, Dhanpat Rai and Sons, Delhi Weber, Physics of Teachers, A Modern Review (1965), MacGraw Hill, New York, Anderson R.D. (1970) Developing Children's thinking through Science, Prentice Hall New Delhi.
8. Cartin, A.A. & Sund, R.D. (1972) : Teaching Science Through Discovery Merrill, London.
9. Gerrise, L. & Madsfield; D (1970) ; Chemisty by Experiment and Understanding, New York.
10. Hurd Dilhurt, P. (1971) New Directions in Teaching School Science.
11. Rand MacMally Co. Chicago. Murry John. 1970 : Teaching of Science in Secondary School. Association Science Education NCERT. Position of science teaching in india Schools, NCERT Strategies in Science Education (RCE) Ajmer.
12. Neffield, (1968) : The Basic Course, Longman, London. Sharma R.C. & Sharma, Teaching of Science, New Delhi-I
13. Siddiqui, N.N. & Siddiqui, N. Teaching of Science, New Delhi.
14. Asimov, I. (1965) : Guide to science, Vol - 1, Pelicen Books.
15. Bal Vigyanik (1981) : Science Text Books for Middle School, M.P. Text book Corporation, Bouling, H.F. Teaching Physics in elementary Schools. Oxford University Press, Esler Innovations in Science Teacher Education, Penguin Books Rogers, E.M. Physics for the inquiring Mind. Princeton University Press.
16. Romey, W.D. (1968) : Inquiry Teachnique for Teaching of Science, Prentice Hall, New Jersey, Jenkin, E & Whitefield , R. Readings in Science Education. A source Book, McGraw Hill, London. Ya- Perelan. Physics for Entertainment. MIR Publishers, Moscow.
17. Walker, J (1977) : The flying circus of Physics, John Wiley and Sons.

PAPER-VI & VII (Group D) Option-(ii): TEACHING OF CIVICS**Time: 3.00 Hours****Max. Marks: 100****NOTE FOR PAPER SETTER**

- i) Paper setters will set 9 questions in all, out of which students will be required to attempt 5 questions.
- ii) Q. No. 1 will be compulsory and carries 20 marks. It will be comprised of 4 short- answer type questions of 5 marks each to be selected from the entire syllabus.
- iii) Two long-answer type questions will be set from each of the four units, out of which the students will be required to attempt one question from each unit. Long-answer type questions will carry 20 marks each.
- iv) All questions will carry equal marks.

Objectives

Pupil Teachers would be able to-

- enable the student teacher to define, discriminate and analyse the concept of civics
- enable the student teacher to formulate aims and objectives of teaching civics at various stages of schooling
- enable the student teacher to critically evaluate the existing schools syllabus of civics and give appropriate suggestions to improve it
- enable the student teacher to understand and apply different methods and techniques of teaching civics and give appropriate suggestions to improve it
- enable him/her to understand the specific role and qualities of a civics teacher
- enable the student teacher to write a review of text book of civics
- enable the student teacher to prepare a good evaluation tool on a given topic
- enable the student teacher to understand the fundamental rights and duties, citizenship and other salient features of constitution of India

COURSE CONTENTS**Unit-I.**

- Meaning and importance of civics and the place of civics in the school curriculum. Correlation with other social sciences.
- Aims and objectives of teaching civics.
- Citizenship, fundamental rights and duties and salient features of India constitution.

Unit-II

- Curriculum of civics at different levels. Principles of curriculum construction, preparing unit curriculum in civics.
- Methods of teaching civics project method, problem solving, socialised recitation, supervised study, Lecture:
- Lesson planning in civics, preparing a lesson plan on a given Unit/topic.

Unit-III

- Audio-visual aids in the teaching of civics, preparing Audiovisual Aids in civics.
- Importance of civics text-book, qualities of a good text book.

Unit-IV

- Civics teacher and his qualities.
- Evaluation in civics tools and techniques. Preparing a good tool to evaluate some concepts in civics.

Suggested Readings

1. Dr. Iqbal Narayan. Principles of Civics, Shiv Lal & Co. Ltd. Agra- 3.
2. Dr. Iqbal Narayan. Our constitution & Civics Life (Shiv Lal and Co. Ltd. Agra -3).
3. Shyam Kishore Malvia. Administration in Free India and Civil Life Bal Bharti, Allahabad. Practical Citizenship for secondary Schools.
4. The Indian Institutes for Social Order, Poona.
5. Oxford Press, Education for Citizenship, Naroliker, Teaching of Civics, White, E.N. The Teaching of Modern Civics.
6. Niramal Yadav, Teaching of Civics and Political Science, Anmol Publisher (2003)
7. Syed M.H., Modern Teaching of Civics/Political Science, Anmol Publication Pvt. Ltd. (Dec.1, 2005)

PAPER-VI & VII (Group D) Option-(III):**TEACHING OF HISTORY****Time: 3.00 Hours****Max. Marks: 100****NOTE FOR PAPER SETTER**

- i) Paper setters will set 9 questions in all, out of which students will be required to attempt 5 questions.
- ii) Q. No. 1 will be compulsory and carries 20 marks. It will be comprised of 4 short- answer type questions of 5 marks each to be selected from the entire syllabus.
- iii) Two long-answer type questions will be set from each of the four units, out of which the students will be required to attempt one question from each unit. Long-answer type questions will carry 20 marks each.
- iv) All questions will carry equal marks.

OBJECTIVES

The students will be able to-

- understand the meaning, scope and importance of History
- develop skill and competence to translate general objectives into performance
- describe the principles of curriculum construction in History and analysis content pedagogically
- demonstrate the different important methods of teaching History by selecting appropriate learning contents
- prepare lesson plan using specific methods of teaching History
- prepare appropriate tests for evaluation of some content in History
- prepare a Write-up of the places of historical importance
- use different aids in teaching of History

COURSE CONTENTS**Unit-I**

- Meaning, nature & scope of History

- Place of History in secondary school curriculum
- Aims, objectives and values of teaching History.
- Bloom's Taxonomy of objectives.

Unit-II

Contents and Pedagogical analysis.

- Indus Valley Civilization.
- Aryans
- Mughal dynasty
- Modern India

Unit-III

Development of Instructional Material

- Development & Designing of curriculum in History.
- Development of lesson plans for History
- Development of text-books.
- Development of self-learning modules.
- Development/utilization of instructional aids :-
 - Charts
 - Maps
 - Graphs
 - Models
 - Film strips
 - T.V.
 - Computers

Unit-IV

Methods & skills of Teaching History

I. Methods

- Source method
- Discussion method
- Dramatisation (Role Play)
- Teaching History through monuments (Field trips)
- Story telling method.
- Project Method

2. Skills

- Skill of narration
- Skill of probing question
- Skills stimulus variations.

3. Evaluation

- Meaning & Importance of evaluation
- Evaluation devices
- Written, oral, assignments

Suggested Readings

1. Chaudhary, K.P. (1975) : The effective Teaching of History in India, NCERT, New Delhi.
2. Dixit U. & Bughela (1972) : Itihas Shikshan, Hindi Granth.
3. Academic, Jaipur, Ghate, V.D. (1956), Teaching of History (English & Hindi), Oxford University Press, Bombay.
4. Hashmi, M.A. (1975) Tarikh Kaisey Parhhaen (Urdu) : Maktaba Jamia Ltd. New Delhi.
5. Khan, S.U. (1998) History Teaching-Problems,
6. Prospective Prospect, Heera, New Delhi. Burton W.H. (1972) : Principles of History Teaching, Methuen, London.
7. Gunnin, Dennis (1978) : The Teaching of History, Goom Helm Ltd. London.
8. Jarvis, C.H. Teaching of History.
9. Kochar, S.K. (1972): The Teaching of History, Sterling Publishers, Delhi.
10. Lewis, E.M. 1960: Teaching History in Secondary Schools, Sterling Publishers, Delhi-I.
11. Mujee, M. (1960): World History in Secondary Schools, Sterling Publishers, Delhi.
12. Shaida, B.D. & Singh, S. (1973): Teaching of History, Dhanpat Rai & Sons, Jallandhar.
13. Tara Chand, A History of Indian People: P.C. Dwadesh & Co., Aligarh.
14. Weech. S.K.L. (1951): History of the World, Odhas Press Ltd., London.

Paper-VI & VII (Group D) Opt. (iv):**TEACHING OF SOCIAL STUDIES****Time: 3 Hours****Max. Marks: 100****NOTE FOR PAPER SETTER**

- i) Paper setters will set 9 questions in all, out of which students will be required to attempt 5 questions.
- ii) Q. No. 1 will be compulsory and carries 20 marks. It will be comprised of 4 short- answer type questions of 5 marks each to be selected from the entire syllabus.
- iii) Two long-answer type questions will be set from each of the four units, out of which the students will be required to attempt one question from each unit. Long-answer type questions will carry 20 marks each.
- iv) All questions will carry equal marks.

OBJECTIVES

Pupil-teachers would be able to-

- define the concept of Social Studies
- explain different methods to teach social Studies
- develop self-instructional material
- explain the concept of evaluation and use evaluation method with the students objectively as well as subjectively
- explain use of teaching aids effectively in the class-room
- develop lesson plan with the help of advanced technology
- explain challenging situations in the society

COURSE CONTENTS**UNIT-1**

- 1) Concept, objectives and values:
 - Meaning, Scope, Importance and values of Teaching Social Studies.
 - Aims and objectives of Teaching of Social Studies with special reference to present Indian School.

- Bloom's Taxonomy of objectives
- Writing objectives in behavioural terms with particular reference to teaching of history/geography/civics.
- 2) Content & their Pedagogical analysis (From elementary to Secondary Level)
 - History of Freedom Movement.
 - Globe: General Information about Globe.
 - Indian Constitution.
 - Major issues facing Indian economy, today.

UNIT-II

- 3) A) Methods and Skills of Teaching Social Studies(History/ Geography/Civics):
 - Project Method
 - Inductive and Deductive Method.
 - Assignment Method
 - Source Method
 - Story Telling Method
 - Lecture Cum Discussion Method
- B) Skills
 - Skill of Narration
 - Skill of Probing Question
 - Skill of Stimulus Variation
- 4) Development utilization of Instructional Material
 - Presentation of Lesson Plan with the help of Power Point.
 - Development of Self-Instructional Modules excluding Programme Learning.
 - Development of Self-Instructional Material.
 - Bulletin Board, Maps, Scrap Books, Computer.
 - Use of Community Resources.
 - Designing of Social Science Lab.

UNIT-III

5) Development/Utilization of instructional aids-

- Charts
- Maps
- Graphs
- Models
- Film strips
- T. V.
- Computers

6) Curriculum development and transaction

7) Development and utilization of instructional aids

UNIT-IV

8) Text Book: Importance and qualities of a good text book of Social Science i.e. History/Geography and Civics

9) Audio visual aids in the teaching of Social Science i.e. History/ Geography and Civics

- Preparation
- Use

10) Evaluation

- Meaning, importance and Objective of Evaluation.
- Evaluation Devices
 - Oral test
 - Written Test
 - Practical test
 - Diagnostic testing and
 - Remedial Measures
 - Observation
 - Rating Scale

SUGGESTED READINGS

1. Burton, W. H. (1972). Principles of History Teaching, London: Methuen
2. Chaudhary, K. P. (1975). The Effective Teaching of History in India, New Delhi: NCERT
3. Dhamija, N. (1993). Multimedia Approaches in Teaching Social Studies, New Delhi: Harman Publishing House
- 4. Dixit, U. & Bughela, I. (1972). Itihas Shikshan, Jaipur: Hindi Granth Academy
- 5. Ghate, V. D. (1956). Teaching of History (English & Hindi), Mumbai: Oxford University Press
6. Hashmi, M. A. A. (1975). Tarikh Kaisey Parhhaen (Urdu). New Delhi: Maktaba Jamia Ltd.
7. Khan, S. U. (1998). History Teaching-Problems : Prospective and Prospect, New Delhi: Heera Publications

PAPER-VIII A: ICT ENABLED PRACTICAL/PROJECTS**(To be evaluated by the External Examiner)**

Examination would be conducted by an External Team consisting of one Coordinator (Head Examiner) and three members (Sub-examiners)- PRACS TEAM as appointed by the University for all Practical Paper VIII A, VIII B, IX and X (School Education Programme -SEP).

Time: 1.30 Hours**Max. Marks: 50*****OBJECTIVES**

Pupil-teachers would be able to-

- demonstrate the use of ICT in Education.
- demonstrate the use of MS Windows and MS Office
- demonstrate the use of ICT and its integration in education.
- demonstrate the use of internet for teaching.
- use ICTs to develop digital portfolios in their teaching subjects
- use effectively the ICTs and the pedagogies associated with them

* Distribution of 50 Marks will be

I. Sessional Work = 20 Marks

II. Practical Work at the time of exam = 20 Marks

III. Viva-voce = 10 Marks

COURSE CONTENTS**UNIT I****(ORIENTATION TO ICT)****1) MS WINDOWS**

- Basic concept of an Operating System and its functions.
- Introduction of Windows: Using Mouse and moving icons on the screen, My Computer, Recycle Bin, Task Bar, Start-menu and menu selection, running an application, Setting system date and time; Windows Explorer to view files, folders and directories, creating and renaming of files and folder, Opening and Closing of Windows, Minimise, Restore and Maximise forms of windows

- Basic components of a Window: Desktop, Frame, Title Bar, Menu Bar, Status Bar, Scroll Bars (Horizontal and Vertical), Using right button of the Mouse, Creation Shortcut, Basic Windows Accessories: Notepad, Paint, Calculator, WordPad, using Clipboard

2) MS OFFICE

• MS WORD

- Introduction to a Word Processor: Creating, Saving, Editing and Formatting a Document; Text Style (B, I, U.), Font Type Size, Changing color, Alignment of text; Formatting paragraphs with line or paragraph spacing; Adding headers and footers
- Numbering pages, using grammar and spell check utilities, using subscript and superscript, inserting Symbols, Print Preview, Printing a document.

Inserting Word Art, Clip Art and Pictures, Page Setting, Bullets and Numbering, Borders and Shading, Format Painter, Find and Replace, Inserting Tables.

• MS POWER POINT

- Introduction to Presentation Graphics, Understanding the concept of Slide Shows, Basic element of a slide, Different types of Slide Layouts, Creating and saving a Presentation, Different views of a slide: Normal view, Slide Sorter view and Slide Show, Editing and Formatting a Slide: Adding Titles, Subtitles, Text Background, Watermark; Header and Footers, Numbering Slides;

- Inserting Pictures from files, Animating pictures and Text with Sound Effects, Timing Text box, Pictures and Slides, Rehearse Timings, ungrouping and Grouping pictures from Clipart.

• MS Excel

Introduction to Spreadsheets, Concept of Worksheets and workbooks, Creating and Saving a worksheet, Working with a spreadsheet: entering numbers, text, date/time, series using Auto fill, Editing and formatting a worksheet including changing

colour, size, font, alignment of text, Inserting of Deleting cells, rows and columns, Formula-Entering a formula in a cell, using operators (+, -, *, /) (In formulae, Relative referencing, Absolute referencing and mixed referencing, Printing a worksheet.

Use Simple Statistical functions: SUM (), AVERAGE (), MAX (), MIN (), IF (), (without compound statements); inserting tables in worksheet, Embedding Charts of various types: Line, Pie, Scatter, Bar and Area in a worksheet.

UNIT-II

(INTEGRATION OF ICT WITH SCHOOL TEACHING SUBJECTS)

3) MAKING SMALL PRESENTATIONS

- Basics of a presentation
 - Difference between presentation and document
 - Using Power Point
 - Opening a Power Point Presentation
- Creation of Presentation
 - Title
 - Text Creation
 - Fonts and Sizes
 - Bullets and indenting
 - Moving to Next Slide
- Preparation of Slides
 - Selection of type of Slides
 - Importing text from word documents
 - Moving to Next Slide
 - The slide Manger
- Providing Aesthetics
 - Slide Designs
 - Background and Text colors
 - Marking your own slide format
 - Footnotes and slide numbering

- Slide Manipulation and Slide Show Presentation of the Slides
 - ♦ Using the Slide Show
 - ♦ Printing the Slides and Handouts
 - ♦ Slide Sorter
 - ♦ Title Sorter

4) INTRODUCTION TO MULTIMEDIA AND ITS APPLICATIONS

- Multimedia
 - ♦ The Concept and Objectives
- Hardware for Multimedia Computer
- Components of Multimedia
 - ♦ Textual Information, Images and their types
 - ♦ Animation, Digital Audio, Digital Video
- Software for Multimedia
 - ♦ Introduction to MS-Publisher
 - ♦ Introduction to Photo draw
 - ♦ Introduction to Front Page

5) INTERNET

- Concept/Definition
- Relationship with and Distance computer
- The internet: the world-wide web, websites and its information super high way
- Basic modes of use of the internet, e-mail, file exchange, discussion groups, live-conferencing (chat) and knowledge navigation
- Classification of the modes: searching for information and exchanging information

Ways of using the Internet in instruction: utilizing already available websites; creating and hosting websites to aid and supplement instruction.

Searching the Web-factors contributions to productive search

- use of concept maps, clues for productive search - URS
Downloading of Search Services, Search Engines, Subject Gate
Ways and Web Directories.

UNIT III

6) HANDLING OF AVAILABLE EQUIPMENTS

Each Teacher Education Institution will make available the following equipments for use of the Pupil-teachers-

- Over-head Projector
- Slide-Projector
- Tape-Recorder
- Epidiascope
- T.V. and Video-Cassette-Recorder

**PAPER VIII B- COMMUNITY BASED PROJECTS
AND WORK EXPERIENCES**

Max. Marks: 50

(Any two of the Following)

- 1) Out of School Children Enrolment Drive (At least 5 children enrolment to Support Teaching)
- 2) Recycling of the Waste Paper
- 3) School/Classroom ambience: Interior decoration including drawing and painting
- 4) Polio Drive and First Aid (Preparing awareness material e.g. Posters/Hand bills etc)
- 5) Serva Shiksha Abhiyaan (SSA) Project
- 6) Alternate School Monitoring- Support teaching
- 7) Out Reach programme (Marginalized children i.e Special needs/ Economically/SC/ST/ Girls)
- 8) Mid Day Meal- Preparation to Monitoring
- 9) Organising Parent Teacher Meeting

**PAPER-IX: SCHOOL EXPERIENCE PROGRAMME (SEP)-
TEACHING PRACTICE**

(School Teaching Subject I)

This programme must help Pupil-teacher to learn to function as a Teacher) ,

One lesson in first school teaching subject be delivered by Pupil-teacher in REAL SCHOOL at the end of the Session to be evaluated by a Team of Experts consisting of One Coordinator (Head-Examiner) and three members (Sub-Examiners) - PRACS TEAM. CBW/Preparation of printed teaching/learning material (for blind students) will be evaluated at the time of skill in teaching examination which will carry 20 marks. No sessional work will be required.

DURING THE SESSION

I) SCHOOL TEACHING SUBJECT I

A. Any Five Micro-Teaching Skills with 1 lesson on each skill

Use of Chalk Board including Handwriting (Compulsory)

Use of Teaching Aids (Compulsory)

- 1) Questioning
 - 2) Introducing the Lesson
 - 3) Use of Reinforcement
 - 4) Stimulus Variation
 - 5) Illustration with Examples
- B. Micro Lessons-5
C. Mega Lessons-5
D. Discussion Lessons-2
E. Real Teaching 20 Lessons
F. Final Discussion-1

(To be selected by the candidate out of two teaching subjects.)

**PAPER-X: SCHOOL EXPERIENCE PROGRAMME (SEP) -
TEACHING PRACTICE**

(School Teaching Subject II)

(This programme must help Pupil-teacher to learn to function as a Teacher)

One lesson in school teaching subject II be delivered by Pupil-teacher in REAL SCHOOL at the end of the Session be evaluated by a Team of Experts consisting of One Coordinator (Head-Examiner) and three members (Sub-Examiners) - PRACS TEAM. CBW/ Preparation of printed teaching/learning material (for blind students) will be evaluated at the time of skill in teaching examination which will carry 20 marks. No sessional work will be required.

DURING THE SESSION

I) SCHOOL TEACHING SUBJECT II

A) Any Five Micro-Teaching Skills with 1 lesson on each skill

Use of Chalk Board including Handwriting (Compulsory)

Use of Teaching Aids (Compulsory)

1) Questioning

2) Introducing the Lesson

3) Use of Reinforcement

4) Stimulus Variation

5) Illustration with Examples

B. Micro Lessons-5

C. Mega Lessons-5

D. Discussion Lessons-2

E. Real Teaching 20 Lessons

F. Final Discussion-1

(To be selected by the candidate out of two teaching subjects.)

**PAPER- XI : PARTICIPATION IN CO-CURRICULAR
SCHOOL-BASED ACTIVITIES**

Grades from O, A, B, C, D would be awarded.

Portfolio would be maintained activity-wise for all including documentary proofs and would be submitted before the commencement of the exams. These would be evaluated by a team of Internal Experts.

Note : Select any Two of the Following.

- A. Communication skills and Functional use of Language Lab
- B. Bharat Scouts and Guides
- C. Literary Activities
- D. Cultural Activities
- E. International and National Days Celebration
- F. Sports Activities