

**SCHEME OF EXAMINATION FOR B. ED. TWO YEAR COURSE (To be implemented from the Session 2015-17)**

**Year I**

Course	Nomenclature	Max. Marks			Teaching Hours per Week (Exam Hours: Marks)	
		Total	Theory	Internal Assessment		
<b>I</b>	Childhood and Growing up	100	80	20	4	(3 HRS: 80)
<b>II</b>	Contemporary India and Education	100	80	20	4	(3 HRS: 80)
<b>III</b>	Learning and Teaching	100	80	20	4	(3 HRS: 80)
<b>IV</b>	Assessment for Learning	100	80	20	4	(3 HRS: 80)
<b>V &amp; VI</b>	Pedagogy of School Subject I*	100	80	20	4	(3 HRS: 80)
<b>V &amp; VI</b>	Pedagogy of School Subject II*	100	80	20	4	(3 HRS: 80)
<b>Enhancing Professional Capacities (EPC) Practicum</b>						
<b>EPC 1</b>	Reading and Reflecting on Texts	50	40 (External Practical)	10		
<b>EPC 3</b>	Critical Understanding of ICT	50	40 (External Practical)	10		
	<b>Total Marks</b>	<b>700</b>				

**YEAR II**

<b>Paper</b>	<b>Nomenclature</b>	<b>Max. Marks</b>			<b>Teaching Hours per Week (Exam Hours: Marks)</b>
		<b>Total</b>	<b>Theory</b>	<b>Internal Assessment</b>	
<b>VII</b>	Knowledge and Curriculum	50	40	10	4 (3 HRS: 40)
<b>VIII</b>	Creating an Inclusive School	50	40	10	4 (3 HRS: 40)
<b>IX</b>	Language Across the Curriculum	50	40	10	4 (3HRS: 40)
<b>X</b>	Understanding Disciplines and Subjects	50	40	10	4 (3 HRS: 40)
<b>XI</b>	Gender, School & Society	50	40	10	44 (3HRS: 40)
<b>XII</b>	<b>Option Course</b> Any Two of the following: 1. Work Education 2. Health and Physical Education 3. Yoga Education 4. Peace Education 5. Guidance and Counselling 6. Environmental Education	50+50	40+40	10+10	4 (3 HRS: 40) + 4 (3 HRS: 40)
<b>XIII</b>	Skill in Teaching (Pedagogic Subject 1)	100	<b>External Practical Only</b>		
<b>XIV</b>	Skill in Teaching (Pedagogic Subject II)	100	<b>External Practical Only</b>		

<b>XV</b>	School Based Activities: 1. Development of CCE 2. Development of Learning Material along with instructional aids 3. Administration of various activities and functioning of the school (in which internship is done) 4. Reporting (Record) about School Internship	50	25 (External Practical)	25 (Internal Assessment)	
<b>Enhancing Professional Capacities (EPC) Practicum</b>					
<b>EPC 2</b>	Drama and Art in Education	50	40 (External Practical)	10 (Internal Assessment)	
<b>EPC 4</b>	Understanding the Self	50	40 (External Practical)	10 (Internal Assessment)	
	<b>Total Marks</b>	<b>700</b>			

#### **V & VI Teaching of School Subjects:**

**Note:** Candidates are required to opt two 'Teaching Subjects' selecting one from any (A, B, C & D) groups. In case student is UG he/she can opt two teaching subject selecting one from any (A, B, C & D) on the basis of his/her graduation subjects and in case he/she is PG out of two teaching subjects one teaching subject can be on the basis of graduation and the other one may be on the basis of Post graduation. However, the candidates who have passed Shastri examination can opt for two subjects from Group-A.

<b>Group A</b>				
Opt. i	Teaching of Hindi	80	20	4 (3 HRS: 80)
Opt. ii	Teaching of English	80	20	4 (3 HRS: 80)
Opt. iii	Teaching of Punjabi	80	20	4 (3 HRS: 80)

Opt. iv	Teaching of Sanskrit	80	20	4 (3 HRS: 80)
Opt. v	Teaching of Physical Science	60	20+20	4 (3 HRS: 80)
<b>Group B</b>				
Opt. i	Teaching of Home Science	80	20	4 (3 HRS: 80)
Opt. ii	Teaching of Commerce	80	20	4 (3 HRS: 80)
Opt. iii	Teaching of Science and Technology	80	20	4 (3 HRS: 80)
Opt. iv	Teaching of Arts	80	20	4 (3 HRS: 80)
<b>Group C</b>				
Opt. i	Teaching of Economics	80	20	4 (3 HRS: 80)
Opt. ii	Teaching of Computer Science	80	20	4 (3 HRS: 80)
Opt. iii	Teaching of Music	80	20	4 (3 HRS: 80)
<b>Group D</b>				
Opt. i	Teaching of Life Science	60	20+20	4 (3 HRS: 80)
Opt. ii	Teaching of Social Studies	80	20	4 (3 HRS: 80)
Opt. iii	Teaching of Mathematics	80	20	4 (3 HRS: 80)

**\*\*Under the broad curricular area, Engagement with the Field, 20 weeks (4+16) shall be allocated over the two years for Tasks, assignments, Teaching Practice and school internship.**

## TEACHING PRACTICE

### SCHOOL TEACHING SUBJECT [Pedagogic Subject I & II](Paper V & VI)

#### Detail of Lessons to be followed in Each Pedagogic Subject

- a) Micro lessons
- b) Mega Lessons
- c) Discussion Lessons
- d) Real Teaching

#### Note:

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 Practicals at the end of 2<sup>nd</sup> Year. a team will cover all the three streams i.e. Teaching of Languages, Teaching of Sciences and Teaching of Social Sciences.

**Criteria for the award of Internal Assessment in Theory Papers will be as per the distribution given below (out of total marks):-**

i)	One Task & Assignment in every theory paper*	10 marks
ii)	One test in every theory paper	5 marks
iii)	Attendance	5 marks
	Upto 75%	1 mark
	Upto 80%	2 marks
	Upto 85%	3 marks
	Upto 90%	4 marks
	Above 90%	5 marks

**\*In every theory paper, two tasks/assignments/ projects related to the community, the school, and the child in school and out-of-school of ten marks (each) as a part of field engagement must be included out of which student teachers are required to submit only one.**

#### Note:

- If a candidate is awarded Internal Assessment of more than 75%, the concerned teacher will give specific justification for the same which shall be considered by a committee to be constituted by the concerned Principal of the College as the case may be.
- Pattern of syllabi will remain the same as the previous one.

**Grand Total =1300 marks**

## **COURSE-I:**

### **CHILDHOOD AND GROWING UP**

**Time: 3 Hours**

**Max. Marks: 80**

#### **NOTE FOR PAPER SETTERS:**

- 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 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-**

1. Differentiate between growth and development.
2. Developed an understanding about various developmental stages.
3. Develop an understanding about various aspects of growth and development.
4. Explain various features of development during adolescent years.
5. Described the relative importance of heredity and environment in the growth and development.

### **CHILDHOOD AND GROWING UP**

#### **Unit -1**

##### **Growth and Development**

- Concept of Growth and development.
- Difference between Growth and development.
- General principles of growth and development.
- Educational implications of principles of growth and development.
- Factors affecting growth and development.

#### **Unit -2**

##### **Heredity and Environment**

- Meaning of heredity.
- Laws and Mechanisms of Heredity.
- Meaning of Environment.
- Relative importance of heredity and environment in the development of the learner.

- Educational Implications of heredity and environment.
- Individual differences- meaning, determinants, areas and educational implications of individual differences in the organisation of educational programmes.

### **Unit -3**

#### **Stages of Human development**

- .
- Concept and Characteristics of Childhood stage.
- Adolescence stage-Meaning of adolescence.
- Development patterns during adolescence.
- Needs and special problems of adolescents.
- Education during Childhood and Adolescents stages.
- Guidance and counselling for adolescents, role of parents, school and teachers in guidance and counselling.

### **Unit -4**

#### **Aspects of development and Theories of development**

- Physical development- Meaning and characteristics of physical development during childhood and adolescence.
- Factors affecting Physical development.
- Cognitive development – Meaning and Characteristics and its implications.
- Theories of cognitive development-Bruner’s Theory of cognitive development and instruction, Jean Piaget theory of cognitive development.
- Social development- Concept/ meaning and Characteristics.
- Stages of social development according to Erickson.
- Factors affecting social development.
- Emotional development- Meaning and characteristics of emotions
- Methods for training of emotions, emotional maturity.
- Characteristics of emotional development during childhood and adolescence stages of development.
- Factors influencing emotional development.

**Sessional**

**Total: 20 Marks**

#### **Suggested Readings:**

- Santrock, J.W. (1999). Life Span Development: New York: Mc Graw Hill.
- Carolk. Sigelman, Elizabeth A. Rider. Life-Span Human Development.
- Elizabeth B. Hurlock (2011). Developmental Psychology- A Life-Span Approach. 5<sup>th</sup> edition.
- Barbara M. Newman, Philip R. Newman. Development Through Life. A Psychological Approach.

- Robert V. Kail, John C. Cavanaugh. Human Development, A life-Span view, fifth Edition.
- William J. Hoyer, John M. Rybash, Paul Roodin. Adult development and aging. McGraw-Hill.
- John C.Cavanaugh, Fredda Blanchard-Fields. Adult development and Aging. Fifth edition.
- Diane E.Papalia, Sally WendKos Olds, Ruth Duskin Feldman. Human development. McGraw-Hill, 1998.
- Preeti Verma and D.N. Srivastava,
- Hindi translation of E.V. Herlok (2vol.)
- Piaget, J. (1997). Development and Learning. In M. Gauvain & M. Cole (Eds.), Readings on the development of the children. New York: W.H. Freeman & Company.
- Saraswathi, T.S. (1999). Adult child continuity in India: Is adolescence a myth or an emerging reality? In T.S. Saraswathi (Ed.), Culture, Socialization and Human Development: Theory, Research and Applications in India. New Delhi: sage.
- Sharma, N. (2003). Understanding adolescence. NBT India.
- Aggarwal, J.C. Essential of Educational Psychology, Delhi: Doaba Book House.
- Chauhan, S.S. Advanced Educational Psychology.
- See more at: <http://uou.ac.in/node/5065#sthash.xGbtV1oQ.dpuf>



**Course-II**  
**CONTEMPORARY INDIA AND EDUCATION**

**Time: 3 Hours**

**Max. Marks: 80**

**NOTE FOR PAPER SETTERS:**

- 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 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**

After completing this course the student teachers will be able to-

- *Explain the history, nature and process and Philosophy of education*
- *Analyse the role of educational system in the context of Modern Ethos*
- *Understand the concept of diversity*
- *Develop an understanding of the trends, issues, and challenges faced by the contemporary Indian Education in global context*

**Unit -1**

**Understanding Diversity**

- Education: Concept, definition and scope
- Agencies of Education: School, family, community and media
- Concept of Diversity
- Diversity in Indian society on the basis of individual, region, religion, caste language, tribes and economic status
- Challenges posed by social diversity
- Role of education in social diversity and inequality

**Unit -2**

**Contemporary Issues and Concerns**

- Universalisation of School Education, Right to Education and Universal Access
- Issues of a) Universal enrolment b) Universal retention c) Universal learning
- Issues of quality and equity: Physical, economic, social, cultural and linguistic, particularly w.r.t girl child, weaker sections, minorities and disabled
- Constitutional provision in relation to aims of education i.e. Preamble, Fundamental rights, and duties of citizens, Directive Principles of state policies.
- Constitutional provisions on education that reflect National Ideals: Equality, liberty, secularism, and social justice

- Inequality in Schooling: Public-private schools, rural-urban schools, single teacher schools and other forms of inequalities in school systems
- Role of education in fulfilling constitution promises such as freedom, justice, equality and fraternity.

### **Unit- 3**

#### **Education Commissions and Policy( Pre and Post Independence)**

- An overview of educational development in India between 1835 and 1947 with special reference to Adam's report, Macaulay's minutes, Wood's Dispatch, Basic Education Scheme and Sargent Plan
- National Commissions and Policies: Kothari Commission (1964), NPE and POA (1986, 1992)
- SSA (2000), RMSA
- Mid- day meal programme
- National curriculum frame work ( 2005) Need and objectives
- District Primary Education Programme (DPEP)

### **Unit -4**

#### **New Trends and Issues in Education**

- Challenges of education from preschool to senior secondary
- Inclusive education as a rights based model
- Language issues in education
- Credit Based System
- Implementation of CCE
- Community participation and community based education

#### **Some Suggested Activities on contemporary issues**

- Comparative study of different settings
- Conflicts and social movements in India: Women, Dalit, Tribal and Disabled
- Educational debates and movements
- First generation learners
- Children with disabilities
- Inclusive education
- RTE act in the context of disadvantaged
- Linguistic and religious diversity
- Human rights, minority rights
- Educational status of various groups
- Special and inclusive schools
- Analysis of contemporary debates
- Home-Based Education
- Deschooling Society

## **Essential Readings**

- Government of India (GoI) (1966). National Education Commission (1964-66), Ministry of Education: New Delhi.
- Government of India (GoI) (1986/92). New Education Policy, MHRD: New Delhi.
- Guha, Ramchandra (2007). India after Gandhi: The History of the World's Largest Democracy. Macmillan: Delhi
- GoI (2010). Right to Education Act 2009, MHRD: New Delhi.

## **Suggested Readings**

- Aggarwal. J. C. (1992). Development and Planning of Modern Education: New Delhi Vikas Publishing House Pvt. Ltd.
- Amartya Sen, and Jean Dreze (1997). India: Economic Development and Social Opportunity, Oxford India: Delhi. Select Chapters.
- Anand, S. P. (1993). The Teacher & Education in Emerging Indian Society, New Delhi: NCERT.
- Bhat. B. D. (1996). Educational Documents in India, New Delhi: Arya Book Depot.
- Bhatia, K. & Bhatia, B. (1997): The Philosophical and Sociological Foundations, New Delhi Doaba House.
- Biswas. A. (1992): Education in India, New Delhi: Arya Book Depot.
- Biswas. A. and Aggarwal, J.C. (1992). Education in India, New Delhi: Arya Book Depot.
- Chakravarty, Sukhamoy (1987). Development Planning: The Indian Experience, Oxford University press: New Delhi.
- Choudhary. K.C. and Sachdeva, L. (Eds) (1995): Total literacy by 2000: New Delhi: IAE Association.
- Dubey, S. C (2001). Indian Society, National Book Trust: New Delhi.
- Ain, L. C. (2010). Civil Disobedience, Book Review Literary Trust: New Delhi. Select chapters.
- Kashyap, S. C. (2009). The Constitution of India, National Book Trust: New Delhi.
- Mohanty, Jagannath. (1993). Indian Education in the Emerging Society, New Delhi Sterling publishers Pvt. Ltd.
- Sapra. C. L. and Ash Aggarwal, (Ed.,) (1987): Education in India some critical Issues. New Delhi: National Book Organisation.
- Saraswathi, T. S. (1999). Culture, Socialization and Human Development, New Delhi: Sage Publications.
- Steven, B. (1998). School and Society, New Delhi: Sage Publications.
- Suresh, D. (1998). Curriculum and Child Development, Agra: Bhargava.

- Taneja. V. R. (1998). Educational Thoughts and Practice, Delhi University Publications.
- Vaidyanathan, A. (1995). The Indian Economy: Crisis, Response and Prospects. Tracts of the Times. Orient Longman Publications: New Delhi.
- Weber. O.C. (1990). Basic Philosophies of Education, New York Holt, Rinehart and Winston.

### **Readings for Discussion**

- Chandra Bipin (1997). Nationalism and Colonialism, Orient Longman: Hyderabad. Chapter 1.
- Deaton A and Jean Dreze (2008-2009). Poverty and Inequality in India in Raj Kapila and Uma Kapila (Ed.) in Indian Economy since Independence. Oxford University Press: New Delhi.
- Deshpande, Satish. (2004). Contemporary India: A Sociological View. Penguin: New Delhi. Chapter 5: Caste inequalities in India Today.
- Famous Speeches of Gandhi ji: Speech on the Eve of The Last Fast January 12, 1948.
- Speeches of Gandhi ji: Speech on the Eve of The Last Fast January 12, 1948. Government of India (GoI)
- <http://www.gandhi-manibhavan.org/gandhicomelive/speech8.htm>
- <http://www.mkgandhi.org/speeches/speechMain.htm>
- Jain, L.C. (2010). Civil Disobedience, Book Review Literary Trust: New Delhi. Select chapters.
- Jangira, N.K 2012. NCERT mother of Inclusive education address on golden Jubilee of NCERT at RIE, Ajmer on 01 Sept.2012.
- <http://unesdoc.unesco.org/images/0023/002322/232205e.pdf>

**Course-III**  
**Teaching and Learning**

**Time: 3 Hours**

**Max. Marks: 80**

**NOTE FOR PAPER SETTERS:**

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- iii) Two long answer type questions will be set from each 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-**

- Explain about the different steps of teaching and learning
- Define the scope and importance of educational technology in contemporary society
- Explain emerging technologies exhibiting proper perspective and attitudes.
- Formulate instructional objectives by using different approaches.
- Acquire theoretical bases of educational technology and to develop awareness about different models of teaching
- Describe various technologies of communication
- Get awareness of on – line medias and its importance in education.
- Corroborate the role of information communication Technology in present and future.
- Develops the programmed learning materials.

**COURSE CONTENTS**

**Unit-1**

**Teaching and Learning:**

- Concept, Characteristics, functions, factors and principals of teaching& learning
- Maxims of teaching, Variables of teaching (meaning, types and functions)
- Levels of teaching.
- Phases of teaching.

**Innovative Idea in Teaching and Learning**

- New method of teaching: Team leader, cooperative teaching, Peer learning, workshop, Seminar, Panel discussion, symposium.
- Relationship between teaching and learning

## **Unit-2**

### **Educational Technology and ICT**

- Concept, need and Importance of ICT
- Educational Technology
- Meaning and Concept of Educational Technology
- Scope and Significance
- Hardware, Software and System approach

### **Concept and Meaning of Communication**

- Models of Communication
- Barriers to communication
- Effective classroom communication

## **Unit-3**

### **Instructional Objectives and Approaches**

- Blooms taxonomy of instructional objectives (Domains or levels: Cognitive Effective and Psychomotor)
- Robert Magers Approach and Herbrtian approach

### **Models of Teaching**

- Glasers Basic Teaching Model
- Bruners Concept Attainment Model
- Suchmans Inquiry Training Model
- Social Inquiry Training Model

## **Unit-4**

### **Professional Skill Development of Teachers**

- Concept need and importance of Micro teaching, Simulated Teaching and Flanders Interactional Analysis. Role of On line-Medias in professional development. Action Research .

### **Programmed Instruction**

- Styles of programmed learning(Linear, Branching and Mathetics)
- Stages of development of a programme learning Materials preferation, writing try-out and evaluation.

**Practical/Sessional**

**Total Marks: 20**

- Development of programmed learning material (try out and validation).

- Development of Action Research Project in any of the following areas-
  - Classroom teaching contexts
  - Classroom and school management
  - Improvement of learning levels and Cognitive learning

### **SUGGESTED READINGS:**

- Jenkins, J. (1998). Distance Education, The Internet and the Learning Culture, A paper presented in International Conference on Collaborative Networked Learning, New Delhi: IGNOU.
- Kasturiranjana, K. (1995). Valedictory address in the seminar on Technologies for Education Networking, New Delhi: IGNOU.
- Kulkarni, S.S. (1986). Introduction to Education Technology, New Delhi: Oxford & IBH Publishing Co.
- Kumar, K.L. (1996). Educational Technology and Communication Media, Cuttack: Nalanda.
- Mehra Vandana (2004) Educational Technology, New Delhi : S S Publishers.
- Mohanty, J. (1992). Educational Technology, New Delhi: Deep and Deep Publication.
- Mukhopadhyaya, M. (ed.) (1990). Education Technology Challenging Issues, New Delhi: Sterling Publishers.
- Richmond W. R. (ed.) (1900). The Concept of Education Technology: A Dialogue with Yourself, London: Weidenfield and Nicolson.
- Sachdeva, M. S., Sharma, K. K. and Kumar, S. (2007). Educational Technology, Patiala: Twenty First Century Publications
- Sampath, K., Pannirselvam, A. & Santhanam, S. (1990). Introduction to Educational Technology, New Delhi: Sterling Publishers Private Limited.
- Takewale, R. G. (1995). Technologies for Educational Network, Presidential address in the seminar on Technologies for Educational Networking, New Delhi: IGNOU.

**Course-IV**  
**Assessment for Learning**

**Part- I**

**Time: 3 Hours**

**Max. Marks: 80**

**NOTE FOR PAPER SETTERS:**

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- 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 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.

**Aims of the Course**

The course will enable student teachers to

- Gain a critical understanding of issues in assessment and evaluation (from a constructivist paradigm);
- Become cognisant of key concepts, such as formative and summative assessment, evaluation and measurement, test, examination;
- Be exposed to different kinds and forms of assessment that aid student learning;
- Become the use of a wide range of assessment tools, and learn to select and construct these appropriately; and
- Evolve realistic, comprehensive and dynamic assessment procedures that are able to keep the whole student in view;

**Course Outline**

**Unit -1:**

**Overview of assessment and Evaluation**

- Assessment, evaluation, test, examination, measurement
- Formative and summative evaluation
- Continuous and comprehensive assessment
- Grading
- Distinction between Assessment of Learning and Assessment for Learning.
- Critical review of current evaluation practices and their assumptions about learning and development.



## **Unit 2:**

### **Assessment of Subject-Based Learning**

- Enlarging notions of subject-based learning in a constructivist perspective
- Assessment tools
- Kinds of tasks: projects, assignments, performances
- Kinds of tests and their constructions
- Observation of learning process by self, by peers, by teacher
- Self-assessment and peer assessment

## **Unit 3:**

### **Teacher competencies in evolving appropriate assessment tools**

- Evolving suitable criteria for assessment
- Visualising appropriate assessment tools for specific contexts, content, and student
- Formulating tasks and questions that engage the learner and
- Using assessment feedback for furthering learning
- Feedback as an essential component of formative assessment
- Use of assessment for feedback; for taking pedagogic decisions

## **Unit 4:**

### **Data Analysis, Feedback and Reporting**

- Statistical tools- percentage, graphical representation, frequency distribution, central tendency, variation, normal distribution, percentile rank, correlation and their interpretation
- Examination Reforms: Efforts in India with special reference to CCE (Continues and Comprehensive evaluation)
- Examination for gradation, social selection and placement.
- Credit based evaluation and choice based credit system(CBCS)
- Role of ICT in examination.

## **SUGGESTED READINGS**

- Aggarwal, Y.P. (2002). Statistical Methods: Concepts, Applications and Computation. New Delhi: Sterling Publishers Pvt. Limited.
- Anastasi, A. (1976). Psychological Testing. New York: McMillan Publishing Co., Inc.
- Asthana, B. (2008). Measurement and Evaluation in Psychology and Education. Agra: Agrawal Publications.
- Bhargava, M. and Mathur, M. (2005). Psychometrics and Statistical Applications in Educational and Behavioural Sciences. Agra: H. P. Bhargava Book House.
- Choube. P. S (1998). A Guide to Psychology Experiments and Statistical Formulas. Agra: Vinod Pustak Mandir.
- Ferguson, G.A. (1976). Statistical Analysis in Psychology and Education. Tokyo:

McGraw Hill Kogakusha Limited.

- Guilford, J.P. and Fruchter, B. (1970). Fundamental Statistics in Psychology and Education. New York: McMillan Publishing Co., Inc.
- Gupta, C.B. and Gupta, V. (1995). An Introduction to Statistical Methods. Kanpur: Vikas Publishing Pvt. House.
- Lewis, R.A. (1979). Psychological Testing and Assessment. London: Allyn and Bacon, Inc.
- Mangal, S.K. (2002). Statistics in Psychology and Education. New Delhi: Prentice Hall of India.

## **EPC 1: READING AND REFLECTING ON TEXT**

**Marks: 50**

**(External: 40, Internal: 10)**

### **Introduction:**

One of the core areas that schools focus upon is age appropriate and fluent literacy skills. Hence, aspirant graduates who intend to make career in education must be good readers and good writers (in literally sense). Due to several reasons a student teacher like you may not have adequate skills, interest and motivation for reading and writing. Here is a skill based and activity oriented course designed to give you an opportunity to look at reading writing seriously, relearn it as a professional activity, apply it for students with special needs and enjoy it like never before.

### **Objectives**

After completing the course the learners will be able to:

- *Reflect upon current level of literacy skills of the self*
- *Show interest and begin working upon basic skills required to be active readers in control of own comprehension.*
- *Show interest and begin working upon basic skills required to be independent writers understanding adequate intent, audience and organization of the content.*
- *Prepare self to facilitate good reading writing in students across the ages.*
- *Find reading writing as learning and recreational tools rather than a course task.*

### **Unit: 1**

#### **Reflections on Literacy:**

- Literacy and Current University Graduates: Status and Concerns; Role of Literacy in Education, Career and Social Life; Literacy, Thinking and Self Esteem; Literacy of Second Language / English: Need And Strategies;

### **Unit: 2**

#### **Reflections on Reading Comprehension:**

- Practicing Responses to Text: Personal, Creative and Critical;  
Developing Good Reading Skills and Habits in Secondary Level Students: Activities And Strategies; Basic Understanding Of Reading Comprehension Of Children With Hearing Impairment And Learning Disability

### **Unit: 3**

#### **Skill Development in Responding To Text:**

- Indicators of Text Comprehension: Retelling, Summarizing, Answering, Predicting, Commenting and Discussing; Practicing Responding To Text (Using The Indicators) For Recreational Reading Material (Narrations) And School Textbooks (Description); Practicing Responding To Text (Using

The Indicators) For Reports, Policy Documents And News (Expositions) And Editorial, Academic Articles, Advertisement Copy, Resume (Argumentation); Practicing Web Search, Rapid Reading And Comprehensive Reading.

#### **Unit: 4**

#### **Reflecting Upon Writing as a Process and Product:**

- Understanding Writing As A Process: Content (Intent, Audience And Organization); Understanding Writing As A Process: Language (Grammar, Vocabulary, Spelling); Practicing Self Editing And Peer Editing Of Sample Texts; Practicing Evaluating Students Writing Using Parameters: Productivity, Correctness, Complexity, Text Organization And Literary Richness

#### **Unit: 5**

#### **Practicing Independent Writing:**

- Practicing Writing: Picture Description/ Expansion Of Ideas / Essays / Stories;

Practicing Daily Writing: Applications / Agenda - Minutes/ Note Taking; Practicing Converting Written Information Into Graphical Representation; Practicing Filling Up Surveys, Forms, Feedback Responses, Checklists; Reflections On The Course: From Theory To Practice To Initiating Process To Improve Self.

#### **Course Work / Practical / Field Engagement**

1. Have a peer editing of independently written essays and discuss your reflections upon this experience.
2. Prepare a feedback proformas for parents and for teachers focussing on differences in the two proforms due to different intent and audience.
3. Develop a short journal of graphical representation of 3 newspaper articles on school education
4. Visit book store and libraries and suggested Readings for young children, go through the available reading material including exercise books, puzzles etc and make a list of useful material for developing early literacy skills.

#### **Essential Reading**

- Soundarapandian, M. (2000). Literacy campaign in India. Discovery Publishing House: New Delhi.
- May, Frank B. (2001). Unravelling the seven myths of reading. Allyn and Bacon: Boston

- Tovani.C & Keene.E.O (2000).*I Read It, but I Don't Get It: Comprehension Strategies for Adolescent Readers*. Stenhouse Publishers
- McGregor.T(2007). *Comprehension Connections: Bridges to Strategic Reading*. Heinemann Educational Books
- Anderson, R., Hiebert, E., Scott, J., & Wilkinson, I. (1985). *Becoming a Nation of Readers: The report of the commission on reading*. Washington, DC: National Institute of Education and the Center for the Study of Reading.
- ASER report of 2015: Pratham Publication
- McCormick, Sandra. (1999). *Instructing students who have literacy problems*.(3<sup>rd</sup>) Merrill: New Jersey
- Aulls, Mark W. (1982). *Developing readers in today's elementary school*. Allyn and Bacon: Boston
- Heller, Robert. (1998). *Communicate clearly*. DK Publishing: New York.
- May, Frank B. (1998). *Reading as communication*. Merrill: New Jersey
- Gallagher.K (2004).*Deeper Reading: Comprehending Challenging Texts*. Stenhouse Publishers
- Miller.D (2002).*Reading With Meaning: Teaching Comprehension in the Primary Grades*. New York: Stenhouse Publishers
- Baniel, Anat. (2012). *Kids beyond limits*. Perigee Trade: New York
- Pandit, Bansibhari, Suryawanshi, Dhyane Kute & Meena Prakash. (2007) *Communicative language teaching in English*: Nityanutan Prakashan: Pune
- Paul, Peter V. (2009). *Language and Deafness*. Jones and Bartlett: Boston
- Ezell and Justice (2005). *Programmatic Research on Early Literacy: Several Key Findings*. *IES 3rd Annual Research Conference: American Speech Language & Hearing Association (ASHA)*.
- Frank, Smith (1985). *Reading without Nonsense*. New York: Teachers College Press, 10027.
- Luetke-Stahlman and Nielsen (2003). *Early Literacy of Kindergartners with Hearing Impairment*. *High Beam*
- *Research The Gale Group, Inc. & GRIN Publishing Munich Germany*.

## **EPC 3**

### **Critical Understanding of ICT**

**Marks: 50**

**(External: 40, Internal: 10)**

#### **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

#### **COURSE CONTENTS**

##### **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.

### **(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 highway
- 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.

#### 6) Handling of available Equipment

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
- Camera



**Paper-V & VI (Group-A) (Optional-1)**  
**Teaching of Hindi**

**Time: 3 Hours**

**Max. Marks: 80**

**NOTE FOR PAPER SETTERS:**

- 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 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:-**

1. Define the nature, need & principles of Hindi Language.
2. Explain different methods of teaching Hindi.
3. Demonstrate the use of various audio visual aids.
4. Explain objectives and steps of teaching prose, poetry & grammar of Hindi.
5. Explain the meaning of evaluation and types of evaluating techniques.

**f'k{k.k f'k{k.k**

**izFke bdkbZ%**

¼v½ Hkk"kk& vFkZ] :i ,oa fo'ks"krk,aA ekr`Hkk"kk f'k{k.k& vFkZ] Lo:i]

egRo ,oa mn~ns';] Cywe }kjk fu/kkZfjr vuqns'kukRed mn~ns'; A

¼vk½ Hkk"kkbZ dkS"ky& Jo.k dkS'ky] Hkk"kk dkS'ky] iBu  
dkS'ky] ys[ku dkS'kyA

¼v½ fgUnh mPpkj.k f'k{k.k ,oa fgUnh /ofu;ka o mudk oxhZdj.k] v{kj  
foU;k] fojke fpg~uA

¼vk½ fgUnh f'k{k.k esa lwpuk rduh dh dh mi;ksfxrk ,oa iz;ksxA

**}hrh; bdkbZ%**

¼v½ fgUnh f'k{k.k ds lkekU; fl)kUr] fgUnh f'k{k.k ds vuqokn dk vFkZ]

fo'ks'krk,a] izf'k{k.k] fgUnh Hkk'kk f'k{k.kA

¼vk½ ikB ;kstuk dk vFkZ] egRo ,oa :ijs[kkA

¼v½ fgUnh ikB~;Øe fuekZ.k ,oa leh{kA

¼vk½ fgUnh ikB~;&iqLrd dh fo'ks'krk,a ,oa leh{kA

**r`rh; bdkbZ%**

¼v½ xn~; f'k{k.k ¼O;kid ,oa xgu ikB :i esa ,oa nzqr ikB :i esa½A

¼vk½ in~; f'k{k.k ¼j] ikB ,oa cks/k ikB :lk esa½A

¼v½ jpk f'k{k.k& dgkuh ¼vkSipkfjd ,oa O;kogkfjd f'k{k.k ds :i esa½]  
fucU/k ,oa i= :i esaA

¼vk½ O;kdj.k f'k{k.k ¼vkSipkfjd ,oa vukSipkfjd o iz;ksxkRed½A

**prqFkZ bdkbZ%**

¼v½ fgUnh f'k{k.k esa ewY;kadu& vFkZ] fo'ks'krk,a] egRo] mn~ns';]  
ikBkUrxZr ewY;kadu] ikBksijkUr ewY;kaduA

¼vk½ iz'u i= fuekZ.k] iz'uksa ds fofHkUu izdkj ,oa jpuk]  
Hkk"kk&iz;ksx'kkykA

¼v½ fgUnh Hkk"kk esa x`gdk;Z&vFkZ] egRo] mn~ns';] i{k o foi{k esa  
rdZA

¼vk½ x`gdk;Z dks izHkkoiw.kZ ,oa lkFkZd cukus ds mik;] la'kks/ku  
dk egRo ,oa vk/kqfud fof/k;ksa dk iz;ksxA

iz;ksxkRed fØ;k,a%

vf/kdre vad% 20

¼v½ fo|ky;ksa esa fgUnh dh ikB~;&lgxkeh fØ;kvksa dh O;oLFkk ,oa  
vk;kstu djuk A

¼vk½ fgUnh esa mipkj f'k{k.k&Nk=ksa ds fgUnh Hkk"kk Is lacaf/kr  
fdlh ,d leL;k dk v/;;u ,oa leL;k funku ds mik; A

lanHkZ xzaFk lwph%

- dkSf'kd t;ukjk;.k] fgUnh f'k{k.k] gfj;k.kk lkfgR; vdkneh] p.Mhx<+ A
- [kUuk T;ksfr] fgUnh f'k{k.k] /kuirjk; ,aM dEiuh] fnYyh A
- frokjh HkksykukFk rFkk HkkfV;k] fgUnh f'k{k.k] fnYyh fyfi izdk'ku]  
fnYyh A
- ikaMs jke'kdy] fgUnh f'k{k.k] fouksn iqLrd eafnj] vkxjk A
- izdk'k jk?ko] O;kogkfjd lkekU; fgUnh] fiad fIVh ifCy'kIZ] t;iqj A
- ckgjh gfjnso] O;kogkfjd fgUnh O;kdj.k] yksd Hkkjrh izdk'ku]  
bykgkckn A
- eaxy mek] fgUnh f'k{k.k] vk;Z cqd fMiks] ubZ fnYyh A
- yky jeu fcgkj] fgUnh f'k{k.k] jlrksxh ifCyds'ku] esjB A
- lQk;k j?kqukFk] fgUnh f'k{k.k] iatkc fdrkc ?kj] tkya/kj A
- lqf[k;k ds0ds0] fgUnh /ofu;ka vkSj mudk f'k{k.k] jkeukjk;.k]  
bykgkckn A

**Paper- V & VI, Group-A (Opt. ii): TEACHING OF ENGLISH**

**Time: 3 Hours**

**Max. Marks: 80**

**NOTE FOR PAPER SETTERS:**

- 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 notes 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-**

1. Explain the concept of English and its elements
2. Define linguistic skills and process of development among pupils
3. Conduct pedagogical analysis and develop teaching skills.
4. Explain the concept of evaluation and methods of evaluating the performance of students.
5. Critically explain various teaching methods.
6. 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: Concept ,Components

### **UNIT-III**

5) Developing Language Skills- Listening and Speaking

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) Evaluation Procedure

- Evaluation- Comprehensive and continuous, and Objective-type and Essay-Type Questions.

### **Practical/ Sessional**

**Max. Marks: 20**

Observation and evaluation of linguistics skills by the pupil teacher.

Organisation of various co-curricular activities related to English subject.

### **SUGGESTED READINGS**

Crown, G. (1977). Listening to Spoken English. London: Longman.

Christopherson, P. (1972). Second Language learning, New Delhi: Penguin.

Chaturvedi, M. G. (1973). A Contrastive Study of Hindi-English Phonology, New Delhi: National Publishing.

Dodson, C. J. (1972). Language Teaching & the Bilingual Method, Pitman Publishing.

Frisby, A. W. (1970). Teaching English: Notes and Comments in Teaching English Overseas, London: E.L.B.S.

Girad, B. (1972). Linguistics and foreign Language Teaching, London: Longman

Hayes, B. L. (ed.) (1991). Effective strategies for teaching reading, London: Allyn & Bacon

Sachdev M.S. (2007). Teaching of English, Patiala: Twenty First Century Publications.

Wilkins, D. A. (1983). Linguistics in English Teaching. London: Edward Arnold ELBS Edition

**Paper- V & VI, Group-A (Opt. iii): TEACHING OF PUNJABI**

**Time: 3 Hours**

**Max. Marks: 80**

**NOTE FOR PAPER SETTERS:**

- 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 notes 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-**

- (i) Develop awareness about basic concepts related to teaching of Punjabi at the secondary level.
- (ii) Impart training in various skills e.g. language skills, use of techniques of evaluation, teaching skills (micro-teaching skills)etc.
- (iii) 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 test

**Practical Session**

**Marks: 20**

**Students will prepare assignments related with syllabus.**

### SUGGESTED READINGS

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

**Paper- V & VI, Group-A (Opt. iv): TEACHING OF SANSKRIT**

**Time: 3 Hours**

**Max. Marks: 80**

**NOTE FOR PAPER SETTERS:**

- 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 notes 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-**

- (i) Explain the nature, need & principles of Sanskrit language.
- (ii) Describe different methods of teaching Sanskrit.
- (iii) Demonstrate the use of various audio visual aids.
- (iv) Explain the objectives and steps of teaching prose, poetry, composition & grammar of Sanskrit.
- (v) Define the meaning of evaluation and types of evaluating techniques.
- (vi) Explain and organise different type of co-curricular activities related to Sanskrit. (Shloka Recitation, Lecture, Dramatization and other creative competitions)

**COURSE CONTENTS**

**bdkbZ ,d**

1- laLd`r Hkk"kk ,oa lkfgR; dk ,sfrgkfld rFkk orZeku voyksdu

- laLd`r Hkk"kk dh ikB~;Øe esa vfuok;Zrk ¼mís';½

2- laLd`r Hkk"kk f'k{k.k esa lkekU; fl)kUr rFkk lw=

- laLd`r Hkk"kk f'k{k.k esa Jo.k rFkk iBu dk vH;kIA

**bdkbZ nks**

3- laLd`r Hkk"kk f'k{k.k dh fof/k;kj

- ikB'kkyk fof/k
- ikB~;iqLrd fof/k
- izR;{k fof/k
- O;kdj.k vuqokn fof/k

4- laLd`r ikB~; iqLrd fuekZ.k

5- laLd`r v/;kid rFkk n`; JO; lk/ku iz;ksx

**bdkbZ rhu**

6- laLd`r esa fo/kkvksa dk f'k{k.k

- laLd`r esa x|&'k{k.k&izfØ;k- m's'; rFkk lksiku
  - laLd`r eas ij&'k{k.k& izfØ;k- m's'; rFkk lksiku
  - laLd`r esa O;kdj.k f'k{k.k &izfØ;k- m's'; rFkk lksiku
  - laLd`r esa jpuk f'k{k.k & izfØ;k- m's'; rFkk lksiku
  - laLd`r esa vuqokn f'k{k.k& izfØ;k- m's'; rFkk lksiku
- 7- laLd`r Hkk"kk Kku dk ewY;kadu] vFkZ] ijh{kkvksa ds izdkj  
 ¼fuca/kkRed] oLrqfu"B] y?kwÜkj] vHkh"V½
- x`gdk;Z fu;kstu ,oa la'kks/ku izfØ;kA
  - laLd`r Hkk"kk dh lgikB~; fØ;k,a  
 ¼'yksdksPpkj.k] Hkk"k.k] vfHku;hdj.k ,oa jpukRed izfr;ksfxrk,a½

**bdkbZ pkj**

**8- laLd`r Hkk"kk;h dkS'ky**

- laLd`r esa mPpkj.k f'k{k.k & v'kqf) mPpkj.k ds izdkj, O;kdj.k rFkk lq/kkj ds mik;A
- laLd`r esa v{kj&foU;kl f'k{WO ASSIGNMENTSk.k&lkekU; v'kqf);ka] dkj.k rFkk fuokj.k ds mik;A lqys[k dk;ZA

**9- laLd`r fo"k; oLrq**

- /kkrq :i&iB~] fy[k~] vl~] Hkw] d` ¼yV~ rFkk y' ydkj½  
 'kCn :i& jke] gfj] unh] yrk
- izR;;& ¼vuh;j~] rO;r~½ lekl ¼cgqczhfg }U}½
- 'kCnkFkZ rFkk vuqokn ¼8oha rFkk 10oha gfj;k.kk cksMZ ds ikB~;Øe ls½

**SUGGESTED READINGS**

- 1 IQk;k] j?kqukFk-laLd`r&'k{k.k] p.Mhx<+% gfj;k.kk fgUnh xzUFk ,dknehA
- 2 ik.Ms; jke 'kqDy- laLd`r&'k{k.k] vkxjk% fouksn iqLrd eafnjA
- 3 cksdh oh-ih- , ,i'ksp Vw Vhfpax] iwuk% y[k'kux<+ izSIA
- 4 vkIVs Mh-th- Vhfpax vkWQ laLd`r] cEcbZ % inek ifCyds'kUIA
- 5 IQk;k] j?kqukFk- laLd`r f'k{k.k fof/k] tkya/kj% iatkc fdrkc ?kjA
- 6 vkIVs Mh-th- Mksaxjs ih-ds-] Vhfpax vkWQ laLd`r bu ISds.Mjh Ldwy] cM+kSnk % vkpk;Z cq d fMiksA
- 7 gqQjsdj- n izksCye vkWQ Vhafpax vkWQ laLd`r]dksYgkiqj% Hkkjr cq d LVkWyA



**Paper- V & VI, Group-A (Opt. v): TEACHING OF PHYSICAL SCIENCES**  
**Time: 3 Hours** **Max. Marks: 60**

**NOTE FOR PAPER SETTERS:**

- i) Paper setters will set 09 questions in all, out of which students will be required to attempt 5 questions.
- ii) Q. No. 1 will be compulsory and carries 12 marks. It will be comprised of 4 short- answer type notes of 3 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 12 marks each.
- iv) All questions will carry equal marks.

**Objectives:**

- (i).To develop awareness about developments in the area of teaching and learning of Physical Science at the national and international level.
- (ii).To develop competencies in the prospective teachers related to physical Science at the lower Secondary level with specific reference to Indian School Conditions.
- (iii).To 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.
- (iv).To enable prospective teachers to be effective teachers in order to perform the required role as a physical Science teacher under Indian school conditions.

**COURSE CONTENTS**

**UNIT-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 behavioral terms.

**Contents and Pedagogical analysis.**

**A. Contents**

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

**B. 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 behavioral outcomes.
3. Listing activities and experiments.
4. Listing evaluation procedure.

**UNIT-II**

## **Transaction of contents and Development of Instructional Material.**

### **A. Transaction of contents**

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

### **B. Development of self-learning material (Linear programme)**

## **UNIT-III**

### **Methods of teaching and Skills involved in teaching**

#### **A. Methods of teaching**

1. Lec-Demonstration method
2. Project Method
3. Problem-solving method

#### **B. Skills**

1. Practical demonstration-using Laboratory
2. Improvisation of apparatus
3. Skill of introducing the lesson (set induction)
4. Skill of 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**

### **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.

### **Pedagogical Analysis**

**Marks 40**

- 1) Preparations of Improvised Apparatus
- 2) Five practical's of school level
- 3) Development of self-learning material (Linear Programme)
- 4) Report of any place of scientific interest

### **Suggested Readings**

Anderson, R.D. (1970) : Developing Children's Thinking Through Science, Prentice Hall, New Delhi.

Carin, A.A. & Sund, R.D. (1976) : Teaching Science Through Discovery, Merit, Harvard project Physics, (1968) An Introduction to Physics (Vol -C).

Hurd Deart, P. (1971) : New Directions in Teaching School Science.

Rand McNally Co., Chicago, Kuthiro, (1970) : Physics Teacher Guide, Parker Publishing Co., New York.

Lewis, J.L. (1971) : Teaching of School Physics, Longman Group Let. London.

Sharma R.C. (1981) : Modern Science Teaching Dhanpat Rai and Sons. Delhi Weber, Physics of Teachers, A Modern Review (1965), MacGraw Hill, New New York, Anderson R.D. (1970) Developing Children's thinking through Science, Prentice Hall New Delhi.

Cartin, A.A. & Sund, R.D. (1972) : Teaching Science Through Discovery Merrill, London.

Gerrise, L. & Madsfield; D (1970) ; Chemisty by Experiment and Understanding, New York.

Hurd Dilhurt, P. (1971) New Directions in Teaching School Science.

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.

Neffield, (1968) : The Basic Course, Longman, London. Sharma R.C.& Sharma, Teaching of Science, New Delhi-I

Siddiqui, N.N. & Siddiqui, N. Teaching of Science, New Delhi.

Asimov, I. (1965) : Guide to science, Vol - I, Pelicen Books.

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.

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.

Walker, J (1977) : The flying circus of Physics, John Wiley and Sons.

## **Paper- V & VI, Group-B (Opt. i): TEACHING OF HOME SCIENCE**

**Time: 3 Hours**

**Max. Marks: 80**

### **NOTE FOR PAPER SETTERS:**

- 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 notes 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-**

- (i) To develop understanding of the aim of teaching of Home Science
- (ii) To develop understanding of the various methods and procedures required for teaching Home Science effectively.
- (iii) To develop basic skills and competencies required for teaching of Home Science.
- (iv) To develop practical skill to organize various activities related to Home Science.
- (v) To develop skills and competencies required for preparing teaching-aids in teaching of Home Science.
- (vi) To 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**

**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**

Chandra, Shah & Joshi. Fundamental of Teaching of Home Science, New Delhi: Sterling Publishers Pvt. Ltd

Dass & Ray. Teaching of Home Science, New Delhi: Sterling Publishers Pvt. Ltd

Devdass, R. P. Method of Teaching of Home Science, New Delhi: NCERT.

Devdass, R. P. Teaching of Home Science in Secondary School. A handbook of Suggestion for Teachers, New Delhi: NCERT

Spafford, I. Fundamental in Teaching of Home Science, New York: John Wiley & Sons

## **Paper- V & VI, Group-B (Opt. ii): TEACHING OF COMMERCE**

**Time: 3 Hours**

**Max. Marks: 80**

### **NOTE FOR PAPER SETTERS:**

- i) Paper setters will set 09 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 notes of 04 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-**

- (iv) To develop understanding of Importance and Principles of Commerce.
- (v) To acquire knowledge of present Commerce conditions in India.
- (vi) To acquire competencies necessary for a Commerce teaching.
- (vii) To develop the competencies of a Commerce teacher with the present needs of the environment.

### **COURSE CONTENTS**

#### **UNIT-I**

- 9) Nature and Concept of Accountancy and Business studies
  - Meaning, nature and scope of Accountancy and Business studies
  - Values in Commerce education.
  - Aims, and objectives and importance of teaching Accountancy and Business Studies.
  - Stating objectives in behavioural terms (Bloom’s taxonomy of objectives.)
- 10) Content and their Pedagogical Analysis
  - Double entry System
  - Final Accounts
  - MNCs
  - Organisational Management

#### **UNIT-II**

- 11) 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.
- 12) 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

- 13) Methods of Teaching
- Methods of Teaching
    - Lecture Method
    - Discussion Methods
    - Problem-Solving method
    - Project Method
    - Role Playing with its application in class room situation.
- 14) Skills of Teaching
- Skill of Introducing lesson
  - Skill of Stimulus Variation
  - Skill of Explaining
  - Skill of Probing Questions
  - Illustration with Example

### UNIT-IV

- 15) Evaluation
- Meaning and Importance
  - Types of Evaluation
  - Achievement test- Meaning, uses, and Preparation of Achievement test

### Practical/Sessional

**Marks 20**

**Students will prepare two assignments related with syllabus.**

### SUGGESTED READINGS

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

**Paper- V & VI, Group-B (Opt. iii): TEACHING OF SCIENCE AND TECHNOLOGY**

**Time: 3 Hours**

**Max. Marks: 80**

**NOTE FOR PAPER SETTERS:**

- 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 notes 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-**

- (i) explain and demonstrate competencies related to teaching and learning of Science and technology as a compulsory school subject.
- (ii) identify the aims and objectives of teaching major and minor concepts of Science and Technology in relation to present society.
- (iii) analyze and design curriculum in Science and Technology keeping in view the needs of target group.
- (iv) explain the development in the area of Teaching of Science at the National and International Level.
- (v) enumerate approaches and methods of teaching and explain their uses in actual classroom.
- (vi) define and demonstrate competencies related to Science at the secondary level with specific reference to Indian School Conditions.
- (vii) describe Pedagogical Analysis of contents in the Science at the secondary level.
- (viii) identify competencies of effective teachers in order to perform the required role as a Science Teacher under Indian School Conditions.
- (ix) establish Science and Technology lab using local and low cost resources.
- (x) explain types of evaluation and use tools of evaluation in actual classroom.

**COURSE CONTENTS**

**UNIT-I**

1) Concept of Science and Technology

- Need and significance: Justification for Science and Technology as a Compulsory subject
- Emergence of the concept of Science and Technology
- Linking Science and Technology with the Society- Science-Technology-Society (STS) approach in Teaching

2) Aims and Objectives of Science and Technology

- Difference between aims and objectives
- Objectives: behavioral objectives and general objectives
- Writing behavioral objectives on any five-topics from the text books (6-10 )
- Bloom's-Taxonomy of Educational objectives.



- Aims and objectives of teaching Science and Technology according to the latest trends.

## **UNIT-II**

### 3) Curriculum Development in Science and Technology

- Current principles of curriculum development
- Analysis of any one of the text books of science and technology being taught from 6<sup>th</sup> to 10<sup>th</sup> class.

### 4) Transaction of Curriculum.

- Instructional Planning: Unit-planning and Lesson planning.
- Pedagogical Analysis of any one unit from the current text books following constructivist approach.

## **UNIT-III**

### 5) Teaching Approaches

- Constructivist approach in teaching with specific reference to science and technology as a school subject.
- Activity based approach: Meaning and significance of discovery approach, project approach
- Concept approach: Concept, meaning and classification
- Integrated and disciplinarian approach to teaching Science

### 6) Methods of teaching

- Inquiry method
- Project method.
- Lecture-cum-demonstration method
- Methods of learning in tune with constructivist approach.

## **UNIT-IV**

### 7) Science and Technology lab and teaching aids

- Concept and need of Science Lab.
- Establishing a Science lab and its lay-out
- Text book as a teaching aid
- Audio and Audio-visual aids in teaching of Science
- CD-Rom and multimedia concept and role

### 8) Evaluation

- Concept and types of Evaluation, Difference between measurement and evaluation
- Continuous and comprehensive evaluation, need and importance of class tests, internal and external evaluation
- Terminal evaluation/ Credit vs Grading System
- Different types of tests with reference to their construction, suitability and analysis

### **Practicum /Sessionals**

**Max. Marks: 20**

### **Submit Report on any Two of the following activities-**

1. Project Report: Prepare an achievement test on any unit related to any class from 6<sup>th</sup> to 10<sup>th</sup> and submit a report about the effectiveness of the prepared achievement test.
2. Write a lesson plan on any topic of your choice (class 6<sup>th</sup> to 10<sup>th</sup>) following a specific method linked with constructivist approach.
3. Prepare two teaching aids on any topic of your choice and write its application for teaching a topic, following the constructivist approach.
4. Prepare an analytical report on any of text books (6-10) of Science and Technology

5. Develop any two demonstrative experiments for teaching any topic on Science & Technology.
6. ICT based or power-point presentation on any topic of your choice (class VI to X) on Science and Technology.
7. Seminar presentation on any topic given in the syllabus.

### **SUGGESTED READINGS**

- Ander, B. R. D. (1970). *Developing Children Thinking Through Science*, New Delhi: Prentice Hall.
- Das, R. C. (1985). *Science Teaching in Schools*, New Delhi: Sterling Publishers
- Gupta, V K. (1994). *Science and Technology Education: New Thrusts and Recent Trends*, Chandigarh: Arun Publishing House
- Gupta, V. K. (1994). *Teaching and Learning of Science and Technology*, New Delhi: Vikas Publishing
- Gupta, V. K. (1994). *Life Science Education Today*, Chandigarh: Arun Publishing House
- Mangal, S. K. (1995). *Teaching of Physical and Life Science*, Delhi: Arya Book Depot
- Sharma, R. C. (1990). *Modern Science Teaching*, New Delhi: Dhanpat Rai & Sons
- Siddiqui, N. N. & Siddiqui, M. M. (1994). *Teaching of Science Today and Tomorrow*, Delhi: Doaba House

**Paper- V & VI, Group-B (Opt. iv): TEACHING OF ARTS**

**Time: 3 Hours**

**M. Marks: 80**

**NOTE FOR PAPER SETTERS:**

- 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 notes 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:**

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

**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 incaustic, 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/Sessional****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. Percy Brown Indian Paintings.
7. Ian Chilvers The Oxford Dictionary of Art.
8. Bhup Singh Gulia The Traditions of Northern India (A study of Art, Architecture and Craft in Haryana) Subhi Publications, City Centre, Gurgaon (HR).
9. Lois Fichner – Rathus - Understanding Art, Prentice-Hall International (U.K.) Ltd. London

## Paper- V & VI, Group-C (Opt. i): TEACHING OF ECONOMICS

Time: 3 Hours

Max. Marks: 80

### NOTE FOR PAPER SETTERS:

- 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 notes 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-

- (i) Develop understanding of economic principles for growth and development of the Indian economy
- (ii) Acquire knowledge of present economic conditions in India.
- (iii) Acquire desirable attitudes and to become effective instrument of economic change.
- (iv) Become an effective citizen and good consumer
- (v) Acquire appropriate professional behaviour and to develop commitment to leading profession.

### COURSE CONTENTS

#### UNIT-I

- 1) Meaning, Nature & Concept of Economics
  - Place of Economics in Secondary School curriculum
  - Aims, objectives and values of teaching Economics
  - Bloom's Taxonomy of objectives
  - Statement of objectives in behavioural terms
- 2) Contents and Pedagogical Analysis
  - Wants and their classification
  - Laws of return
  - Population-its growth pattern, problem of over population, density population
  - National income-meaning methods of measurement

#### UNIT-II

- 3) Following points should be followed for pedagogical analysis
  - Identification of concepts
  - Listing behavioural outcomes
  - Listing activities and experiments
  - Listing evaluation techniques
- 4) 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., Computers
- Development of lesson plans

### **UNIT-III**

#### 5) Method

- Discussion method
- Problem solving method
- Project method

#### 6) Skill of Teaching Economics

- Skill of narration
- Skill of probing question
- Skill of Stimulus variations

### **UNIT-IV**

#### 7) Evaluation

- Meaning & importance evaluation
- Evaluation devices- written, oral, observation, records
- Preparation of unit test

### **Practicum/Sessionals**

**Max. Marks: 20**

**Practical Session; Students will prepare two assignments related with the topic.**

### **SUGGESTED READINGS**

- Arora, P.N. (1985). Evaluation in Economics, New Delhi: NCERT
- Assistant Masters Association (1974). The Teaching of Secondary School Economics, London: Cambridge University Press
- Bawa, M.S. (1995). Teaching Economics, New Delhi: Delhi University Press
- Boulding, K.E. (1960). Economics Analysis (Volume-1) Micro Economics, New York: Harper and Row
- Dhamija, N. (1993). Multimedia Approaches in Teaching Social Studies, New Delhi: Harmen Publishing House
- Kanwar, B.S. (1973). Teaching of Economics, Ludhiana: Prakash Brothers
- Khan, R.S. & A. (1995). Lesson Planning, New Delhi: IASE, JMI
- Olvie, J.M. (1973). The Principle of Teaching Economics, London: Heinmann Educational Book
- Siddiqi, M.H. (1993). Teaching of Economics, New Delhi: Ashish Publishing House
- Whitehead, D.J. (1979). Hand Book for Economic Teachers, London: Heinemann Educational Books

**Paper- V & VI, Group-C (Opt. ii): TEACHING OF COMPUTER SCIENCE**

**Time: 3 Hours**

**Max. Marks: 80**

**NOTE FOR PAPER SETTERS:**

- 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 notes 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-**

- (i) Explain the importance of computer science in school curriculum.
- (ii) Define the aims and objectives of teaching computer science.
- (iii) Explain Bloom's taxonomy of educational objectives.

**UNIT-I**

- 1) Concept of Computer Science
  - Need and significance: Justification for Computer Science as a Compulsory subject
  - Emergence of the concept of Computer Science
  - Linking Computer Science with the Society and approach in Teaching
- 2) 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 Behavioral terms

**UNIT-II**

- 1) Methods of Teaching Computer Science
  - Lecture -Demonstrative Method
  - Inductive-Deductive Method
  - Problem-Solving Method
  - Project Method
- 3) 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

### UNIT-III

- 4) Instructional Planning, Development, & Utilization of Instructional Material  
Instructional Planning
  - Unit Planning
  - Lesson Planning
- 5) Development 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.
- 6) Designing and Managing Computer Laboratory
  - Importance of Computer Laboratory and its importance
  - Physical conditions and layout of Computer Laboratory
  - Managing a Computer Laboratory

### UNIT-IV

- 7) Methods of Teaching and Micro Teaching Skills:-  
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, importance and type of evaluation
  - Formative Evaluation
  - Summative Evaluation
  - Attributes of Good Achievement Test
  - Types of Tests used in Computer Science

**Practicum/Sessionals**

**Max. Marks: 20**

**Practical Session; Students will prepare two assignments related with the topic.**

#### SUGGESTED READINGS:

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



**Paper- V & VI, Group-C (Opt. iii): TEACHING OF MUSIC**

**Time: 3 Hours**

**Max. Marks: 80**

**NOTE FOR PAPER SETTERS:**

- 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 notes 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-**

- (i) develop understanding of aims of teaching of Music.
- (ii) develop competencies and skills for teaching of Music.
- (iii) develop understanding and awareness of the essentials of Music.
- (iv) develop undertaking of the important evaluative procedures in Music.
- (v) demonstrate Aesthetic sense, Time sense, Tolerance and self confidence.

**COURSE CONTENTS**

**UNIT-I**

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

**UNIT-II**

- 4) Possibilities of notation for Indian Music.
- 5) Voice culture- information about voice and culture and carynx
- 6) Knowledge of motion and Rhythm

**UNIT-III**

- 7) Methods of teaching Music
- 8) To prepare Lesson Plans
- 9) Qualities of a Music Teacher-Gayak, Vadak and Vadyakar

**UNIT-IV**

- 10) Aids to the teaching of Music
- 11) Importance of classical Music, Suggestions for the popularization of classical Music
- 12) Evaluation in Music

**Practicum/Sessionals**

**Max. Marks: 20**

**Any Two of the following:**

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 Ragas:  
Bhupali, Bhairvi, Brindavani Sarag, Asawari, Bhimplashi, Malkauns, Kaffi.  
Every candidate should be able to sing or play a slow Khyal (Vilambit Bara Khyal) or Masti Khayal Gat in Asawari and Malkauns Rag.
2. The following Tals are required to be practiced in. Tha's and Dvigun Laya on Table:
  - Teen Tal
  - Dadra
  - Juptal
  - Dharva
  - Ektal
3. Tuning of the instrument 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 Bhatkhande or Vishnu Digamber Pulskar.

### **SUGGESTED READINGS**

Awasthis. *Teaching of Music (Hindi)*, Extension Services, Jalandhar: Govt. Training College  
Bhatnagar, S. *Teaching of Music*  
Goswami, O. *Indian Music*  
Khande B. *Short Historical Survey*  
Khanna, J.: *Teaching of Music*  
Madam, P. L. *Teaching of Music*  
Masan, P.L. *Teaching of Music, (Hindi)*.  
Patwardhan, *Rag Vigvan*  
Ranaday. *Indian Music (Its Physical and Aesthetics)*  
Sambamoorthy, P. *Teaching of Music*

## **Paper- V & VI, Group-D (Opt. i): TEACHING OF LIFE SCIENCE**

**Time: 3 Hours**

**Max. Marks: 60**

### **NOTE FOR PAPER SETTERS:**

- 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 12 marks. It will be comprised of 4 short- answer type notes of 3 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 12 marks each.
- iv) All questions will carry equal marks.

### **Objectives**

- (i).To develop awareness about development in the area of teaching and learning of Life Science at the national and international level.
- (ii).To develop competencies in the prospective teachers related to Life Science at the lower secondary level with specific reference to Indian School Conditions.
- (iii).To 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.
- (iv).To enable prospective teachers to be effective teachers in order to perform the required role as a Life Science teacher under Indian School conditions.

### **UNIT-I**

#### **Importance, Aims and Objectives:**

1. Importance of Life Science in School Curriculum.
2. General aims and objectives of teaching Life Science.
3. Bloom's taxonomy of educational objectives.
4. Formulation of specific objectives of Life Science in behavioral terms.

#### **Contents and Pedagogical Analysis**

1. Contents:
  1. Photosynthesis
  2. Human digestive system-Respiratory, Excretory, Circulatory systems.
  3. Cell structure.
  4. Micro-organism.
  5. Food Chain
  6. Ecological balance.
2. Pedagogical analysis
  1. Identification of concepts.
  2. Listing behavioral outcomes
  3. Listing activities and experiments.
  4. 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**

### **Development of Instructional Material**

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

## **UNIT-III**

### **Methods of Teaching and Skills (Practical and Micro-teaching)**

1. Methods of teaching
  1. Lecture-demonstration method
  2. Project method
  3. Problem-solving method
2. Practical skills
  1. Preparation of temporary and permanent mounts
  2. Collection and preservation of specimen
3. Micro-teaching skills
  1. Skill of introducing the lesson (set induction)
  2. Skill of Questioning
  3. Skill of illustration
  4. Skill of explaining
  5. Skill of stimulus variation

## **UNIT-IV**

### **Evaluation**

1. Concept of measurement and evaluation
2. Formative evaluation
3. Summative evaluation
4. Different types of grading
5. Attributes of a good achievement test
6. Preparation of an objective type achievement test

### **Padagogical Analysis**

**Marks: 40**

- 1) Preparation of Improvised apparatus
- 2) Collection and preservation of specimen
- 3) Five Practical's of school level
- 4) Development of self-learning material (Linear Programme)

### **Suggested Readings**

Bremmer, Jean, (1967) : Teaching Biology, Macmillan, London.  
Dastgir, Ghulam (1980) : Science kil tadress, Transiation of Sharma & Sharma Teaching Se.  
Tarakki Urdu Board, New Delhi.

H & eller. R (1967) : New Trends in Biology Teaching, UNESCO, Paris.

NCERT (1969) : Improving Instructions in Biology, New Delhi.

Novak J.D. (1970) : The Improvement of Biology Teaching.

Sharma, R.C. (1975) : Modern Science Teaching Dhanpat Rai & Sons, New Delhi.

Waston, N.S. (1967) : Teaching Science Creativity in Secondary School U.B. Saunders Company, London.

Green, T.C. (1967) : The Teaching and learning Biology, Allman & Sons, London.

Miller, David, F. (1963) : Methods and Materials for Teaching the Biological Science, Mc Graw Hill, New York.

Nunn, Gordon (1951) : Handbook for Science Teachers in Secondary Modern Schools, John Murry, London.

Thurber, Walter (1964) : Teaching of Science in Todays Secondary Schools, Prentice Hall, New Delhi.

Vaidya, N. (1971) : The Impact of Science Teaching Oxford and IB+I Publication Co., New Delhi-I

Voss. Burton F.A. & Bren, S.B. Biology as Inquiry : A Book of Teaching Methods.

Gupta, VKJ (1995) : Readings in Science and Mathematics Education, Associated Publishers, Ambala Cantt.

Gupta, V.K. (1994) : Life Science Education Today. Arun Publishing House Pvt. Ltd. SCO 49-51, Sector, 17-C Chandigarh.

Gupta, V.K. (1996) Science and Technology Education : New Thrusts and Recent Trends, Arun Publishing House, Chandigarh.

Gupta V.K. (1995) : Teaching and Learning of Science and Technology, Vikash Publising House, New Delhi.

Gupta V.K. (1995) : Readings in Science and Mathematics Education, Association Publishers, Ambala Cantt.

**Paper- V & VI, Group-D (Opt. ii): TEACHING OF SOCIAL STUDIES**

**Time: 3 Hours**

**Max. Marks: 80**

**NOTE FOR PAPER SETTERS:**

- 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 notes 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-**

- (i) Define the concept of Social Studies
- (ii) Explain different methods to teach social sciences
- (iii) Develop self-instructional material.
- (iv) Explain the concept of evaluation and use evaluation method with the students objectively as well as subjectively.
- (v) Explain use of teaching aids effectively in the class-room.
- (vi) Develop lesson plan with the help of advanced technology.
- (vii) Explain challenging situations in the society.

**COURSE CONTENTS**

**UNIT-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 behavioral terms with particular reference to teaching of history/geography/civics.
- 1) 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**

- 2) 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
  - Cooperative Learning
  - Constructivist Learning
  - Project based Learning

## B) Skills

- Skill of Narration
  - Skill of Probing Question
  - Skill of Stimulus Variation
  - Skill of map reading
- 3) 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.
- 4) Audio visual aids in the teaching of Social Studies i.e. History/Geography and Civics
- Preparation
  - Use

## UNIT-III

- 5) Development/Utilization of instructional aids-
- Charts
  - Maps
  - Graphs
  - Models
  - Encyclopedia
  - T. V.
  - Computers
- 6) Learning Resource
- Importance and Organization of Social Studies Club
    - Recreational Activities of Social Studies Club:
    - Community Festivals
    - Games
    - Quiz
    - Puzzles
    - Visits
    - Talks
    - Brain Storming
    - Exhibitions and Museums
    - Use of Community Resources.
    - Designing of Social Studies Lab.
- 7) Text Book: Importance and qualities of a good text book of Social Studies i.e. History/Geography and Civics
- 8) Curriculum development and transaction

## UNIT-IV

- 9) Evaluation:
- Meaning, importance and Objective of Evaluation.
  - Evaluation Devices
    - Oral test
    - Written Test
    - Practical test
    - Diagnostic testing and achievement test
    - Remedial Measures
  - Observation

- Rating Scale

**Practical / Sessional**

**Marks: 20**

- 1) Making scrap book
- 2) Map work file
- 3) Achievement test
- 4) Model

**SUGGESTED READINGS:**

Burton, W. H. (1972). Principles of History Teaching, London: Methuen

Chaudhary, K. P. (1975). The Effective Teaching of History in India, New Delhi: NCERT

Dhamija, N. (1993). Multimedia, Approaches in Teaching Social Studies, New Delhi: Harman Publishing House

Dixit, U. & Bughela, I. (1972). Itihas Shikshan, Jaipur: Hindi Granth Academy

Ghate, V. D. (1956). Teaching of History (English & Hindi), Mumbai: Oxford University Press

Hashmi, M. A. A. (1975). Tarikh Kaisey Parhhaen (Urdu) . New Delhi: Maktaba Jamia Ltd.

Khan, S. U. (1998). History Teaching-Problems: Prospective and Prospect, New Delhi: Heera Publications



## **Paper- V & VI, Group-D (Opt. iii): TEACHING OF MATHEMATICS**

**Time: 3 Hours**

**Max. Marks: 80**

### **NOTE FOR PAPER SETTERS:**

- 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 notes 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-**

- (vi) Define Meaning, Nature, aims and objectives of Mathematics
- (vii) Explain the relationship of Mathematics with other subjects.
- (viii) Explain Historical development and contribution of Indian Mathematics.
- (ix) Familiarize the pupil-teachers with the development of Curriculum in Mathematics.
- (x) Differentiate between Methods and Techniques of Teaching Mathematics.
- (xi) Perform Pedagogical Analysis of various Concepts in Mathematics.
- (xii) Describe instructional planning and development of relevant material for the teaching of Mathematics.
- (xiii) Demonstrate uses of I.C.T. in Teaching of Mathematics.
- (xiv) Describe Continuous and Comprehensive evaluation, diagnostic testing and remedial teaching in Mathematics.
- (xv) 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
  - Importance and Setting up of Math Laboratories.
- 6) Pedagogical Analysis of the following-
- Control tendencies Mean, Medium, Mode.
  - Congruency
  - Trigonometry
  - Area
  - Volume
  - Linear and Quadratic Equations
  - Ratio and Proportion.
- 7) Identification of concepts.
- Listing behavioral Outcomes.
  - Listing Activities and experiences
  - Listing Evaluation Techniques.

### **UNIT-IV**

- 8) 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.
  - Professional Growth of Mathematics Teacher
  - Application of I.C.T in Teaching of Mathematics.
- 9) Evaluation.
- Comprehensive and continuous Evaluation
  - Development of Test Items:
  - Diagnostic Testing and Remedial Technique
  - Preparation of an Achievement Test.
  - Criterion and Norm Reference Test.

**Practical/Sessional****Max. Marks: 20**

- pedagogical analysis/Assignments/Internal Exam

**SUGGESTED READINGS**

- Butler, C. H. & Wren, K. H. (1980). The teaching of Secondary Mathematics, New York: McGraw-Hill Book Comp.
- Carey L.M. (1975). Measuring and Evaluating School Learning, Boston: Allyn and Bacon.
- Copeland, R.W. (1979). How Children Learn Mathematics, New York: McMillan Pub. Comp.
- Dave, R. H. & Saxena, R. C. (1970). Curriculum and Teaching of Maths in Secondary Schools, A Research Monograph. Delhi: NCERT
- David Wood (1988). How Children Think and Learn, Oxford U.K.: Blackwell Publishers Ltd.
- Davis D.R. (1951). The Teaching of Mathematics, London: Addison Wesley Press
- Intel (2003). Intel innovation in Education, Intel Tech to the Future- Students Work Book
- J.N. Kapur (1991). Suggested Experiments in School Mathematics, New Delhi: Arya Book Depot
- Jain, S. L. (1973). Ganit Shikshan, Jaipur: Hindi Granth Academy
- Joanna O. Masingila & Frank K. Lester (1988). Mathematics via Problem Solving (Student Resource), New York: Printice Hall Inc.
- Kapoor, J. N. (1988). Vidyalaya Ganik ke Liye San Prayog, New Delhi: Arya Book Depot
- Kulshrestha, A. K. (2007). Teaching of Mathematics. Meerut: R. Lall Book Depot
- Mangal, S. K. (2007). Teaching of Mathematics, New Delhi: Arya Book Depot
- Shankaran & Gupta, H. N. (1984). Content-cum-Methodology of Teaching Mathematics, New Delhi: NCERT
- Thomas A. S. (1993). Mathematics for Elementary Teachers (An Interactive Approach), Florida: HBJ Publishers

**Paper- VII**  
**Knowledge and Curriculum Development**

**Time: 3 Hours**

**Max. Marks: 40**

**NOTE FOR PAPER SETTERS:**

- 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 08 marks. There will be 4 short answer type questions of 2 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 08 marks each.
- iv) All questions will carry equal marks.

**Unit: I**

- Knowledge: Concept, Types and Sources.
- Theories of knowledge.
- Methods of Acquiring Scientific Knowledge:
  - Tradition
  - Authority
  - Experience
  - Reasoning

**Unit: II**

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

**Unit: III**

- Curriculum: Meaning, importance and bases of curriculum
- Curriculum Development:
  - Concept, Need and importance of curriculum development.
  - Principles of curriculum development.
  - Factors affecting curriculum development: Philosophical, Social and Psychological.
  - Steps of curriculum development.
  - Issues and trends in curriculum development.

**Unit: IV**

- Models of curriculum: Grassroots model, system analysis model and Administrative model.
- Curriculum evaluation: concept and importance.

- Steps of curriculum evaluation.
- Suggestion and recommendation in curriculum development as per the following Commissions:
  - Secondary Education Commission, 1952.
  - Indian Education Commission, 1964.
  - National Policy on Education, 1986.

**Practical Session**

**Marks: 10**

Attempt any one of the following;

- 1) School visit and preparation of school report
- 2) Time table formation

**SUGGESTED READINGS:**

Aggarwal, J. C. (2003). Handbook of Curriculum and Instruction, Delhi: Doaba Book House

Goodland, J. (1979). Curriculum Enquiry the study of curriculum practices. New York: McGraw Hill

Hass, G. (1991). Curriculum Planning, A new Approach, Boston: Allyn Bacon

Hooer, R. (1971). Curriculum: Context, Design and development New York: Longmans

Lawten, D. (1986). School curriculum Planning, London: Holders and Stayhton

Nicholls, H. (1978). Developing Curriculum- A Practical Guide, London: George Alen and Unwin

Payne, D. A. (1973). Curriculum Coalition: Commentaries on purpose, process and product. Boston: D.C. Heath

Taba, H. (1962). Curriculum Development: Theory and Practice, New York: Harcourt, Brace and world

William, M. A. (1966). Planning Curriculum for Schools. New York: Rinchart and Winston

Dagar B. S. & Dhull, I. (1994). *Perspective in Moral Education*, New Delhi: Uppal Publishers

Gore, M. S. (1984). *Education and Modernization In India*. Jaipur: Rawat Publishers

Havighurst, R. (1995). *Society and Education*, Boston: Allyn and Bacon

Inkeles, A. (1987). *What is Sociology?* New Delhi: Prentice Hall of India

M. H. R. D. (1990). *Towards an Enlightened and Human Society*, New Delhi: Department of Education

Pandey, K. P. (1983). *Perspectives in Social Foundations of Education*, Ghaziabad: Amitash Prakashan.

Pandey, R. S. (1982). *An Introduction to Major Philosophies of Education*, Agra: Vinod Publishing House

**Paper-VIII**  
**CREATING AN INCLUSIVE SCHOOL**

**Time: 3 Hours**

**Max. Marks: 40**

**NOTE FOR PAPER SETTERS:**

- 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 08 marks. There will be 4 short answer type questions of 2 marks each to be selected from the entire syllabus.
- iii) Two long answer type questions will be set from each the four units, out of which the students will be required to attempt one question form each unit. Long answer type questions will carry 08 marks each.
- iv) All questions will carry equal marks.

**COURSES OBJECTIVE**

The students will be able to

- Demonstrate knowledge of different perspectives in the area of education of children with disabilities;
- Reformulate attitudes towards children with special needs;
- Identify needs of children with diversities;
- Plan need-based programmes for all children with varied abilities in the classroom;
- Use human and material resources in the classroom;
- Use specific strategies involving skills in teaching special needs children in inclusive classrooms;
- Modify appropriate learner -friendly evaluation procedures;
- Incorporate innovative practices to respond to education of children with special needs;
- Contribute to the formulation of policy; and
- Implement laws pertaining to education of children with special needs.

**Unit I**

Introduction to inclusive education / school

- 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 abhiyan – 2002 with reference to inclusive school

### **Unit II**

Special education 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, hearing low vision, orthopedic impairment, intellectual impairment cerebral palsy, learning disabilities and multiple disabilities
- Types and use of assistive devices for learners with SEN
- Education concessions and facilities
- Special needs in terms of Murielle in the context of different disabilities and their learning styles

### **Unit III**

Planning and managing inclusive curriculum in schools

- School readiness and school transition
- Individualized education plan (IEP) : development and implementation
- Practices and classroom management in inclusive education : seating arrangement, whole class teaching, collaborating teaching, activity – based learning , peer – tutoring and co-operative learning
- Curricular and instructional accommodation

### **Unit IV**

Facilitators for Inclusive Education

- Need for multidisciplinary approach
- Role and responsibilities : general, special and resource teacher
- Role and responsibilities : family and community
- Prepare at professional partnership : need and relevance

### **Developing Support Networks**

- Addressing social climate of the classroom
- Child-to-child programme
- Developing partnerships in teaching: Teacher and special teacher; Teacher and co-teaching personnel; Parents as partners – developing positive relationships between school and home
- Involving community resources as source of support to teachers

### **Project work**

Make a visit in resource room of nearby schools and prepare report on it.

## References

- Ainscow, M., Booth. T (2003): *The Index for Inclusion: Developing Learning and Participation in Schools*. Bristol: Center for Studies in Inclusive Education.
- Ahuja. A, Jangira, N.K. (2002): *Effective Teacher Training; Cooperative Learning Based Approach: National Publishing house 23 Daryaganj, New Delhi 110002*.
- Jangira N.K. and Mani, M.N.G. (1990): *Integrated Education for Visually Handicapped*, Gurgaon, Old Subjimandi, Academic Press.
- Jha. M.( 2002) *Inclusive Education for All: Schools Without Walls*, Heinemann Educational publishers, Multivista Global Ltd, Chennai, 600042, India.
- Sharma, P.L. (1990) *Teachers handbook on IED-Helping children with special needs* N. C. E R T Publication.
- Sharma P.L (2003) *Planning Inclusive Education in Small Schools*, R .I E. Mysore
- Adrian A., John E. (1998). *Educating children with Special needs*, New Delhi: Prentice Hall
- Baquer, A. & Sharma, A. (1997). *Disability: Challenges Vs. responses*, Can Publishing
- Bartlett, L. D., Weisentein, G.R. (2003). *Successful inclusion for educational leaders*. New Jersey: Prentice Hall
- Chaote J. S. (1991). *Successful mainstreaming*, New York: Allyn & Bacon
- Daniels, H. (1999). *Inclusive Education*, London: Kogan
- Deiner, P.L. (2000). *Resource for Teaching children with diverse abilities*, Florida: Harcourt Brace & Company
- Dessent, T. (1987). *Making ordinary school special*, Jessica Kingsley Publishing
- Gargiulo, R.M. (1997). *Special education in contemporary society: An Introduction to Exceptionality*. Belmont: Wadsworth publications
- Gathoo, V. (2004). *Curriculum strategies and adaptations for children with hearing impairment*. New Delhi: Kanishka Publishing
- Giuliani, G. A. & A., M. (2002). *Education of children with special needs: From segregation to inclusion*, New Delhi: Sage Publications
- Hollahan, D. P. & Kauffman, J. M. (2000). *Exceptional Learners: Introduction to special education*, Boston: Allyn and Bacon.
- Joyce S. Shoate (1997). *Successful inclusive teaching*, Boston: Allyn & Bacon
- Karant, P. & R. , J. (2003). *Learning Disabilities in India*, New Delhi: Sage Publication
- Mohapatra, C. S. (ed.) (2004). *Disability management in India: Challenges and Commitments*. New Delhi: Indian Institute of Public Administration
- Mani, M. N. G. (2004). *Successful Inclusion strategies for secondary and middle school teachers*, New Delhi: Sage Publishing House
- Jha, M. M. (2002). *School without walls: inclusive education for all*. Oxford: Heinemann.
- Mathew, S. (2004). *Education of children with hearing impairment*, RCI, New Delhi: Kanishka Publications



- Panda, K. C. (1997). Education of exceptional children, New Delhi: Vikas Publications
- Sedlak, Ribert, A. & Schlosss P. (1986). Instructional methods for students with learning and behavior problems, New York: Allyn & Bacon
- Yesseldyke, J. S. & Algozzine, B. (1998). Special Education: A Practical approach to teachers. New Delhi: Kanishka Publishers.

**Paper-IX**  
**Language across the Curriculum**

**Time: 3 Hours**

**Max. Marks: 40**

**NOTE FOR PAPER SETTERS:**

- 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 08 marks. There will be 4 short answer type questions of 2 marks each to be selected from the entire syllabus.
- iii) Two long answer type questions will be set from each the four units, out of which the students will be required to attempt one question from each unit. Long answer type questions will carry 08 marks each.
- iv) All questions will carry equal marks.

**Specific Objectives**

To help the students understand

- The nature of language
- Interplay of language and society
- The developmental process of language acquisition
- Function of language and how children use them as a tool at different developmental stages
- Significance and acquisition of early literacy in the larger context of school curriculum.
- Ways of handling aspects of grammar not in isolation but by creatively integrating in with text.

**Unit 1**

**Nature of language**

- Rule governed system and language
- Relationship of Language and Society: Identity, power and discrimination
- Nature of multilingualism: Differential status of Indian language classroom
- Critiquing state policies on language and education

**Unit 2**

**Language Acquisition and Development**

- Language Acquisition and Language Learning
- Development of the four language skills: the synergistic relationship

- Developing reading and writing skills in children
  - (a) Emergent literacy: Readiness for learning
  - (b) Early Literacy: process of transition
  - (c) Early Language education: focus on learning in primary and grades.

### Unit 3

#### Language across the Curriculum

- Function of Language: In the classroom, outside the classroom
- Language in Education and Curriculum
- Learning language and Learning through Language
- Children's background and School Experience Preparing schools for children the social diversity paradigm

### Unit 4

#### The classroom practices and possibilities

- Perspectives on recording and writing
- Prevalent language teaching practices and approaches and their critique
- Connections between classroom instruction and theories
- Role of literature in language learning
- Learner's active role in understanding literature
- Using Children's literature across curriculum
- Classroom Practice in context of social justice, gender differences, individual differences and inclusive environment

#### Mode of Transaction

- Close and critical readings of selective texts under 'Discussion' Readings in small groups
- Participatory transaction by building them around responses of students
- Giving Students opportunities to go through experiential process for transacting some topics such as process writing

#### Suggested Readings:

1. Anderson, R.C. (1984) Role of the Reader's Schema in Comprehension, Learning and Memory. In R.C. Anderson, J. Osbon & R.J. Tierney (ed) Learning to Read in American schools: Based Readers and content texts. Hillsdale, Lawrence Erlbaum Associates: New Jersey.
2. Armbruster, Bonnie B. (1984) The Problem of "Inconsiderate Text" In Duffy, G. G. (ed.) Comprehension Instruction Perspectives and Suggestions. Longman: New York Chapter 14.
3. Kumar Krishna (2007) The Child's Language and the Teacher National Book Trust: New Delhi.
4. Sinha, S. (2000) Acquiring Literacy in Schools. Redesigning Curricula: A symposium on working a framework for School education Seminar, 493.

5. Agnihotri, R.K. (1995) Multilingualism as a classroom resource. In K. Heugh, A. Sieruhn and P. Pluddemomn (ed.) Multilingual education for South Africa. Heinemann: Johannesburg. Pp 3-7.
6. Rhodes, L.K. and N.L. Shanklin (1993) Windows into Literacy. Heinemann, The University of Michigan: UK. Chapter 4: Assessing Language Systems and Strategies in Readings.
7. Rothleen, L. and A. M. Meinbach (1991) The Literature Connection: Using Children's Books in Classroom Good Year Books: Tucson, USA.
8. Freedman S. W. and A.H. Dyson (2003) Writing in Flood J.et.al. Handbook of Research on Teaching English Language Arts: Lawrence Erlbaum Associates Inc: New Jersey, USA.
9. Sinha, Shobha. (2009). Rosenblatt's Theory of Reading: Exploring Literature. Contemporary Education Dialogue. 6 (2), pp 223-237.

### **Course X**

#### **UNDERSTANDING THE DISCIPLINE AND SUBJECTS**

**Time: 3 Hours**

**Max. Marks: 40**

**NOTE FOR PAPER SETTERS:**

- 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 08 marks. There will be 4 short answer type questions of 2 marks each to be selected from the entire syllabus.
- iii) Two long answer type questions will be set from each the four units, out of which the students will be required to attempt one question form each unit. Long answer type questions will carry 08 marks each.
- iv) All questions will carry equal marks.

#### **Unit-I**

- Concept of Knowledge about the universe.
- Nature of Empirical Knowledge, Various theories of knowledge.
- Emergence of discipline/subjects along with the growth of knowledge.

#### **Unit-II**

- Education as a discipline and education as a practice
- Emergence of Education as a basic discipline based on Anthropology, Philosophy, Psychology, Psycho-biology, Sociology, Geography, History, Economic and Political Sciences etc.

#### **Unit-III**

- Logic and Philosophy of Education as a discipline,
- logical positivism and Progressive Education
- Relevance of Indian School of Philosophy in present time

#### Unit-IV

- Realism, Naturalism, Idealism and Pragmatism with special reference to Nature of Knowledge, Curriculum and Methods of Imparting Instruction.
- Educational thoughts of the following thinkers with special reference to Nature of Knowledge, Curriculum and Methods of Imparting Instruction.

#### SUGGESTED READINGS

- Bonrs, J. A. (2001). Cultural diversity and Education. Foundations curriculum and teaching (4<sup>th</sup> Ed) Boston: Allyn and Bacon.
- Bruner, J.S. (2006). In search of pedagogy. Vol. I and Vol. II (The selected work) Routledge.
- Bruner, J.S. (1960). The process of education. Cambridge: Harvard University Press.
- Das, M. (1999). Sri Aurobindo one Education. NCTE, New Delhi.
- Deng, Z. (2013). School subjects and academic disciplines. In A. Luke, A. Woods, & K. Weir (Eds.), Curriculum, syllabus design and equity: A primer and model. Routledge.
- Dewey, J. (2004). Democracy and education. Courier Dover Publications.
- Goodson, I.F., and Marsh, C.J. (2005). Studying school subjects: A guide. Routledge
- Hall, C., and Hall, E. (2003). Human relations in education. Routledge.
- Krishnan, A. (2009). What are Academic Disciplines? University of Southampton , NCRM E Prints Repository  
[eprints.ncrm.ac.uk/783/1/what\\_are\\_academic\\_disciplines.pdf](http://eprints.ncrm.ac.uk/783/1/what_are_academic_disciplines.pdf)
- NCERT (2005). National Curriculum Framework.
- NCERT (2006). Teacher education for curriculum renewal.
- NCERT Report (2010) National Curriculum Framework.
- NCTE (2009). National Curriculum Framework for teacher educators, New Delhi.
- Ram, S. (1999) Current issues in teacher education, Sarup and Sons Publications, New Delhi.

#### Course XI: GENDER, SCHOOL AND SOCIETY

**Time: 3 Hours**

**Max. Marks: 40**

#### NOTE FOR PAPER SETTERS:

- 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 08 marks. There will be 4 short answer type questions of 2 marks each to be selected from the entire syllabus.
- iii) Two long answer type questions will be set from each the four units, out of which the students will be required to attempt one question form each unit. Long answer type questions will carry 08 marks each.
- iv) All questions will carry equal marks.

#### OBJECTIVES:

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

- (i) Explain the concepts of sex and gender.

- (ii) Developed an understanding of psychological and sociological perspectives of sex and gender.
- (iii) Explain the social construction of gender with special reference to family.
- (iv) Describe women in education and various laws protecting them.
- (v) Lists the factors contributing to gender inequalities in schooling.
- (vi) Describe the concept of women empowerment and various roles of women in sustainable development.

## **COURSE CONTENTS**

### **UNIT-I**

#### **Gender Equality and Gender sensitivity**

1. Conceptual foundation: Sex and gender, gender equality, gender justice and gender main streaming, gender parity index.
2. Inequality of opportunity, Imbalances in educational development, economic and social consequences of gender inequality.
3. Constitutional commitment for gender equality in India, National policy on Education (1986) and POA(1992).National curriculum Framework 2005.Conventions on the Rights right of the child 1989,Global Monitoring report 2005 .

### **UNIT-II**

#### **Contemporary Issues in girls Education**

1. Social construction of gender: Socialization, Family, Gender identity; the media, Gender roles and stereotypes; class, caste, community and gender relations.
2. Gender inequalities in schooling, Organization of schooling, Gender bias in text Books, Curricular choices and Hidden curriculum (teacher attitude, classroom Interaction and peer culture)
3. Co-Education –It’s educational Implications.

### **UNIT-III**

#### **Status and Problems of girls Education**

1. 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
2. Girls Education in SSA, DPEP.
3. Community participation for girl child education.

### **UNIT-IV**

#### **Education and empowerment of women**

- Concept and importance
- Women an sustainable development

- Special role of women as protector of environment NGO's.
- Identification of priority areas of research on girl's education.
- Evaluation of centrally sponsored schemes on girl's education
- Discussion, group work, and presentation, Visits to women right organizations,
- Waste management and women worker
- Discussion, group work and presentation, visits to women right organizations, NGO's

### **SUGGESTED READINGS**

- Bordia, A. (2007). Education for gender equity: The Lok Jumbish experience, p 313-329
- Chatterji, S. A. (1993). The Indian Women in perspective, New Delhi: Vikas Publishing
- Devendra, K. (1994). Changing status of women in India, New Delhi: Vikas Publishing House
- Gupta, A. K. (1986). Women and Society, New Delhi: Sterling Publications
- Ministry of Education (1959). Report of National Committee of Women's Education. New Delhi: ME
- Ruhela, S. (1988). Understanding the Indian Women today; Delhi: Indian Publishers Distributors

### **Paper XII (Option-1) WORK EDUCATION**

**Time: 3 Hours**

**Max. Marks: 40**

**NOTE FOR PAPER SETTERS:**

- 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 08 marks. There will be 4 short answer type questions of 2 marks each to be selected from the entire syllabus.
- iii) Two long answer type questions will be set from each the four units, out of which the students will be required to attempt one question from each unit. Long answer type questions will carry 08 marks each.
- iv) All questions will carry equal marks.

**Course Objectives :-**

- To understand the Nature and concept of Philosophy of work education
- To acquire the basic skills in work education
- To understand the different areas of work experience.

## **Unit– 1**

### **Concept of Work Education**

- Meaning, aims, objective and significance of work education at secondary Level.
- Nature and Scope of work education.
- Need of Work Education .
- Relationship with other subjects in the school curriculum.place of work education in the school curriculum

## **Unit-II-**

- Important of work education in our daily life
- Useful resources for work experince education
- Difference of work education with work experience, SLPW.Basic education and vocational educations.

## **Unit – III – Bases of Work Education**

- Bases of work education : Historical, Philosophical, Psychological, Sociological and Economic
- Development of the concept of work education in general education suitable for India as envisaged by the education commission 1964-66
- Concept of socially useful productive work (SUPW) as designed by I. V. Patel Committee.
- Utilization of community resources for audio-visual materials for teaching work education.

## **Unit – IV – Methods and Evaluation of Work Education**

- Different methods of teaching work education :
- project method.
- Discussion method
- Demonstrations methods
- work – study method exposure and
- observation methods.
- Evaluation in work education: design of work education and work book, practical work and attainment. Developing certain tools, e.g. rating scale, check list. Teacher's record. Observation schedule, etc

## **Practicum**

### **Group – (any one)**

1. Agriculture
2. Gardening
3. Tailoring and Embroidery
4. Toy Making
5. Chalk Making
6. Fruit and Vegetable products and Preservation

## **Agriculture**

### **Theory**

1. Crop Production its importance in economic life
2. Selection of crop the climate nature and types of soil Drainage and Water supply Marketing facilities as basis of Crops Selection
3. Selection of Right Variety Crop plant type duration fields

4. Seed and Seed Selection Identification of seed bed Preparation. Qualities of good seed beds observation Scientific agricultural Work
5. Sowing and Planting of Crops – the Principles and Methods
6. Manuring – the role of Manure and fertilisers in crop production nutritive needs of the crops
7. Irrigation and water management – Principles and system of irrigation, danger of excessive water
8. Plant protection – weeds insects and diseases.
9. Harvesting of Crop principles and practice of Harvesting
10. Marketing of crop principles of protection and procedure for storage of crops

### **PRACTICAL**

1. Preparation work in growing of crops
2. Preparation of pots & use of implements
3. Keeping of records and Account
4. Visit of Govt. garden of Farm

### **Gardening**

#### **Theory**

1. Place gardening – importance and aims
2. Site selection for garden
3. Irrigation and drainage – Methods of irrigation and importance
4. Seed and seed Selection methods of Sowing – germination vegetative propagation
5. Place of pot Culture water culture mixing of soil manure
6. Care and upkeep of garden – inter – culture, mulching and weed control insects and pests Sunlgar

### **PRACTICAL**

Care and Handling of equipment upkeep of plants, Pots, preparation of fint nursery beds. Spraying of insecticides etc. collection of seeds bullbs pests etc.

### **Tailoring and Embroidery**

#### **Theory**

- Stitches – Various, types, basting, run, back Stitch, blanket, top sewing, buttons
- Decoration – simple embroidery stitches, chain stitch
- Straight sewing
- Making garments of different styles for children

### **Practical**

1. Stitches- various, type, basting, run, backstitch etc.
2. Handling of machine and its care
3. Harmony of texture, shape, design and colour
4. Decoration and embroidery-drafting of various articles
5. Learning traditional embroidery

(kashmiri, Punjabi, Phulkari, Lucknou, Bengal, Katha, Kutch, Karnataka Kashida)



## **Production and Creative Activities**

### **Theory:**

1. Knowledge of tools accessories used and the maintenance –Book work,stationary binding. General and miscellaneous binding.
2. Wax : Introduction of different types of wax basic requirement of candle making procedure of candle making. Making different types of candle: Layer candle, chips, ice candle.
3. Knowledge of tools accessories used and the maintenance.

### **Practicum**

- Book/Khata binding, cover-file, various of envelops, decorative letter rack, fancy Paper bag.
- Modelling with – clay, plasticine and plaster (any one).
- Relief-work with – clay or plaster.
- Creative work with paper and paper-pulp – Greeting cards, Badge-making, Mask-making
- Creative candle making.
- Decorative art pieces – Glass Painting, egg-cell mosaic, sara painting, decorative wall plate (Any two)

## **TOY MAKING**

### **Theory:**

1. Introduction to Traditional Indian Toys.
2. Traditional Puppets.
3. Preparation of Simple Toys - Clay Toys, Plaster-of-Paris Toys, Paper Mache CardboardToys.
4. Plywood-Cut Toys, soft-Wire Toys.
5. Stuffed Puppets, Simple Puppets.
6. Simple Mechanisation of Toys.

### **Practical:**

1. Preparation of Simple toys and Puppets.
2. Handling of Plaster-vesting.
3. Decoration of Toys - Painting, Dresses of Toys.
4. Preparation of a Receipt - Book Page.

## **CHALK MAKING**

### **Theory:**

1. Uses and Importance of Chalk, types of Chalk, Physical and Chemical Properties of Chalk.
2. Development of knowledge for tools and raw materials together with proper and economical working habits. Also acquiring of the basic skills in handling tools.
3. Familiarisation with various processes in involved in making chalks from raw materials and development of necessary skills in chalk forming then packing to marketing provision of the maximum opportunity to individual student to handle materials tools and techniques.

### **Practical:**

1. Cleaning of tools.
2. Knowledge of raw materials.

3. Preparation of chalk making.
4. Packing of chalk sticks.

### **Fruit and Vegetable products and Preservation**

#### **Theory**

1. Importance of making Jams, Jellies and Pickles
2. Various seasons when Jams, Jellies and Pickles can be Prepared
3. Main principles of Preservation
4. Methods of Preservation
5. Utility of Preservation, Preservatives
6. Precautions to be taken while selecting items for Jam, Jelly and Pickle

#### **Practical**

1. Pickle for short-time use.
2. Pickle for long time use.
3. Fruit – processing – preparation of jams.
4. Fruit – processing – preparation of jellies.

#### **REFERENCE:**

- Bhargava, Prabha: Udhyana Kala. Delhi: Pustak Mahal, 2005.
- Bhargava, Prabha: Pushpa Vatika. Delhi: Pustak Mahal, 2004. Bhargava, Prabha: Bagwani Kala. Delhi: Pustak Mahal, 2004.
- Chaudhary, M.L. & Prasad, K.V.: Bagwani Aur Mulya Verdhan. Delhi: Westwill Publishing House, 2006.
- George, A.: Horticulture Principles and Practices. Delhi: Pearson Education Publishing, 2002.
- Naik, Dada Bhai: Griha Vatika. Varanasi: Serv Seva Sangh Prakashan, 1981.
- Saini, R.S.: Bagwani Sidhant Avam Kirya Kalap. Udaipur: Agrotech Publishing Academy, 2001.
- Shirivastav, S.S.: Udhyana Vigyan. Raipur: Central Book House, 2003.
- Singh, D.K.: Hightech Horticulture. Udaipur: Agrotech Publishing Academy, 2004.
- Thakur, U.S. et al.: Krishi Vigyan Parichaya. Vidyanthi Prakashan, Indore, 1987.
- Gupta, K.C: Chalk-Stick, Slate, Slate-Pencil & Pastel Colour Industry. Delhi: Dehati Pustak Bhandar.
- Making Soft Toys for Children. Delhi: Rohan Book Company, 2000.
- Rahul Soft Toys. Delhi: Rahul Prakashan.

## Paper XII (Option-2)

### Health and Physical Education

Time: 3 Hours

Max. Marks: 40

#### NOTE FOR PAPER SETTERS:

- 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 08 marks. There will be 4 short answer type questions of 2 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 08 marks each.
- iv) All questions will carry equal marks.

#### Course Objectives:

- 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.
- Aware about communicable diseases.

#### Course contents:

##### Unit- 1

#### Physical Education

- A brief historical survey of physical education in India during Aryans, Epic Buddhist, Muslim and British period.
- Meaning, aims & Objectives of Physical education.
- Necessity of health education.
- Foundation of Physical education.
- Concept of Physical fitness.

##### Unit-2

#### Health Education

- Meaning and Definition.
- Aims & Objectives.
- Elementary structure of teeth, eye, ear, skin, respiratory system digestive system heart, blood, kidney.
- Postures and utility of Yogic Exercises (Asans)
- School Health Programmes.

##### Unit-3

#### Health Hazards

- Drugs, Alcohol and smoking.
- Personal cleanliness and care of hair, eyes, ears, teeth, skin and clothing.
- Infection, carriers of infection; its prevention and control disinfection- disinfectants, classification of disinfectants.
- Nutrition and Balanced Diet: Components and Balanced Diet, Functions, Major Sources.

## Unit-4

### Common Diseases and Prevention

- Communicable diseases and national diseases control / eradication program.
- Common diseases: malaria, typhoid, influenza, diarrhea, dysentery, diphtheria, chicken pox (variously), measles (Measles), small pox, mumps (Infection Parotites), the common cold, tuberculosis, rabies, tetanus, leprosy, venereal diseases and intestinal worms .
- Medical inspection of school and First Aid- healthy environment- its role and necessity; mid- day- meals in schools, food and nutrition, balanced diet,

#### References:

- Bucher. C.A. (1964). Foundations of Physical Education, New York: Mosby & Company
- Kilander, H.F. (1971). School Health Education, New York: Mac Millan Company
- Manjul. J.U.S. (1965). School Swasthya Shiksha, Agra University: Universal Publisher
- Yadav, Y.P.& Yadav. R. (2003). Art of Yoga, New Delhi: Friends

## Paper XII (Option-3)

### YOGA EDUCATION

**Time: 3 Hours**

**Max. Marks: 40**

#### NOTE FOR PAPER SETTERS:

- 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 08 marks. There will be 4 short answer type questions of 2 marks each to be selected from the entire syllabus.
- iii) Two long answer type questions will be set from each the four units, out of which the students will be required to attempt one question from each unit. Long answer type questions will carry 08 marks each.
- iv) All questions will carry equal marks.

#### Course 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

#### 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-Vishesha (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.

#### Unit-2

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

#### Unit-3

- Classification of Yoga: Raja Yoga (Ashtang Yoga), Hatha-Yoga, Sankhya-Yoga, Bhakti-Yoga and Mantra-Yoga.
- Yogic diet & its application in modern context.

#### Unit-4

##### Practicum/Sessionals:

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

##### REFERENCES:-

- Bawara, B. V. (1993). *Aapki apni Baat*, Haryana: Divine Radiance Publications.
- Besant, A. (2005). *An Introduction to Yoga.*, New Delhi: Cosmo
- Iyenger, B.K.S. (1996). *Lighter on Yoga.* New Delhi: Harper Collins Publishers India Private Limited
- 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
- Lata, P. (1996). *Intelligence, Creativity, Self-concept and Personality characteristics of delinquents and noe-delinquents.* Chandigarh: Panjab University.
- Lzmailovich, A. V. (1990). *Sahaj Yoga as a cure for epilepsy, Sochi Physiotherapy Hospital.* U.S.S.R: Department of Curatology
- Omand, S. (1960). *Patanjali Yoga Pradeep.* Gorakhpur: Gita Press
- Rai, V.C. (1989). *Effect of Sahaj Yoga Meditation on cardiac disorders.* Delhi Medical College: Department of Physiology
- Rao, P. V. K. (1995). *Scientific and Psychological significance of Yoga.* Benaras Hindu University: Department of Education
- Yadava, Y. P. & Yadav, R. (2003). *Art of Yoga,* New Delhi: Friends
- Yogacharya, Omkareshwarananda, S. (2007). *Freedom of body and mind: Yogasanas, Pranayam and Meditation,* New Delhi: Rawat

**Paper XII (Option-4)**  
**Peace Education**

**Time: 3 Hours**

**Max. Marks: 40**

**NOTE FOR PAPER SETTERS:**

- 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 08 marks. There will be 4 short answer type questions of 2 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 08 marks each.
- iv) All questions will carry equal marks.

**Course Objectives**

On Completion of the course the student teacher will be able to :

- Understand the importance of Peace education.
- Analyse the factor responsible for disturbing peace.
- Familiarise themselves with the pedagogy of peace.
- Develop understanding about strategies for peace education.
- Appreciate the role of peace in life.

**Course Content**

**Unit – 1**

**Importance of peace**

- Aims, objectives and importance of peace Education
- Barnes – Psychological, cultural, Political.
- Factors responsible for disturbing Peace: Unemployment, Terrorism.
- Exploitation suppression of individuality, Complexes.
- Characteristic of good textbook, evaluation of textbook, analysis of text book from Peace Education and environmental education Perspective.

**Unit – 2**

**Empowerment for peace**

- Justice – Social economic cultural and religious
- Equality – Egalitarianism education for all equal opportunity.

**A Understanding Peace as a dynamic social reality Development – perspective :  
Adolescence**

- Awareness of Relevance of Peace.
- Cognitive, Moral, Social, reasoning and Wisdom.
- Highlight of various Philosophies of peace of Gandhi, Krishnamurthy, Aurobindo, Vivekananda, Rabindranath Tagore, Gjubhai The Dalai lama initiatives at national and international level.

**Unit – 3**

**Pedagogy of peace**

- Conflict resolution
- Brain Storming

- Problem Saving
- Activity Performance

#### Unit-4

##### Strategies for Peace

- Emotional integration : Rapprochement Story telling.
- Understanding background : Survey action researches
- Violence in School Home and Society
- Negotiation, Persuasion, Reproachment, Co-existence.

**Practicum:** Any one of the following:

(Suggested practicum, but more activities can be take up by the teacher based on any topic from above units)

1. Preparation of a report on school programmes for promoting of peace.
2. Case study of a child suffering from bad habit.
3. Observation of Classroom situation and identification of factors promoting peace.
4. Identification of situations where conflict resolution has been successfully practiced.
5. List out the resources for effective implementation of peace Education Programme.

##### References :-

1. Delors, Jacques (1996). Learning the treasure within. Report of International Commission on Education for the 21<sup>st</sup> century. Paris : London.
2. Dhan, H. (2000). Teaching Human Rights. A Handbook for Teacher Educators, Asian Institute of Human Rights Education, Bhopal.
3. Galtung, J and Ikeda, D. (1995). Choose peace. London: Pluto Press.
4. Government of India (1948-49). Report of the University Education Commission, New Delhi, Ministry of Education.
5. Government of India (1966). Report of the Education Commission 1964-66 on educational National development, New Delhi, Ministry of Education.
6. Government of India (1986). Report of the National Policy on Education (1986), New Delhi, Ministry of Human Resource Development.
7. Government of India (1993). Learning without Burden, New Delhi: Ministry of Human Resource Development, Department of Education, Govt. Of India.

#### Paper XII (Option-5)

#### GUIDANCE AND COUNSELING

**Time: 3 Hours**

**Max. Marks: 40**

##### **NOTE FOR PAPER SETTERS:**

- 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 08 marks. There will be 4 short answer type questions of 2 marks each to be selected from the entire syllabus.
- iii) Two long answer type questions will be set from each the four units, out of which the students will be required to attempt one question form each unit. Long answer type questions will carry 08 marks each.
- iv) All questions will carry equal marks.

### **Course Objectives:**

To enable the teacher trainees:

- To understand the concept of Guidance and Counselling.
- To assess the strength and learning difficulties of students.
- To help students in selecting their subjects for future study.
- To collect data using various tools like case study, achievement test etc.
- To understand and apply the techniques of Guidance and Counselling.

### **Contents**

#### **Unit-1**

##### **Guidance and Counseling**

- Introduction to guidance: Meaning, nature, scope and functions of guidance,
- Principles of guidance, Need of guidance at various stages of life,
- Types of guidance : educational, vocational, personal guidance (their meaning, objectives, needs and importance )
- Procedure of guidance, Individual and group procedures of guidance, their nature and advantage, Group guidance techniques – class tasks, career – task, career – conference – group, discussion field – visits, career – exhibition, audio – visual techniques

#### **Unit-2**

- Role of various community agencies in school guidance program
- Concept of counseling: theories of counseling; theory of self (rogers)
- Types of counseling: directive, non-directive and eclectic
- Process of counseling (initial disclosure in depth exploration and commitment to action) Skills in counseling (listening, questioning, responding and communicating) Role of teacher as a counselor and professional ethics associated with it

#### **Unit-3**

##### **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
- Testing: intelligence, aptitude, attitude , interest, achievement and personality
- Techniques used in guidance: questionnaire, anecdotal records, interview schedule, case study diary and autobiography cumulative – record cards

#### **Unit-4**

Job analysis : occupation at information instructional

- Job analysis: concept and need
- Job satisfaction: concept an factor affecting job satisfaction
- Concept of occupational information and sources of collection
- Career counseling and discrimination of occupational information

Guidance services and the organization in schools

- Types of guidance services
- role of school personnel's in organizing guidance services

### **PRACTICUM/ASSINGMENTS (Any two of the following.)**

1.Visit to different Guidance Centre



2. Preparation of Cumulative Record
3. Case Study of Problem Child
4. Administration, Scoring & interpretation of at least two tests
5. Job Analysis of a Counsellor
6. Establishing Career Centre
7. Preparation of scrap-book for career Counselling

## REFERENCE

- 1. Bengalee, M.S.: Guidance and Counselling. Bombay: Seth Publishers, 1984.
- 2. Bhatnagar, A. and Gupta, N.: Guidance and Counselling Vol. I – A Theoretical Perspective. New Delhi: Vikas Publishing House, 1999.
- 3. Bhatnagar, A. and Gupta, N.: Guidance and Counselling Vol. II – A Theoretical Perspective. New Delhi: Vikas Publishing House, 1999.
- 4. Crow, L. and Crow, A.: Introduction to Guidance. New Delhi: Eurasia, 1962.
- 5. Geldard, K. and Geldard, D.: Counselling Children: A Practical Introduction. New Delhi: Sage Publications, 1997.
- 6. Gibson, R.L. and Mitchell, M.H.: Introduction to Counselling and Guidance. New Jersey: Merrill Prentice Hall, 1995.
- 7. Gupta, Manju: Effective Guidance and Counselling Modern Methods and Techniques. Jaipur: Mangal Deep Publication, 2003.
- 8. Jaiswal, S.R.: Guidance and Counselling. Lucknow : Lucknow Prakashan, 1985.
- 9. Kochhar, S.K.: Guidance in Indian Education. New Delhi: Sterling Publishers, 1984.
- 10. Koshy, Johns: Guidance and Counselling. New Delhi: Dominant Publisher, 2004.
- 11. Mittal, M.L.: Kariyar Nirdeshan Avem Rojgar Suchana. Meerut: International Publication House, 2004.
- 12. Myers, G.E.: Principles and Techniques of Vocational Guidance. London: McGraw Hill Book Company, 1941.
- 13. Nayak, A.K.: Guidance and Counselling. New Delhi: APH Publishing Corporation, 1997.
- 14. Oberoi, S.C.: Educational Vocational Guidance and Counselling (Hindi). Meerut: Loyal Book Depot, 1993.
- 15. Pal, H.R. & Sharma, M.: Education of Gifted. New Delhi: Kshipra Publication, 2007.
- 16. Pal, H.R. and Pal, A.: Education of Learning Disabled. New Delhi: Kshipra Publication, 2007.
- 17. Rao, S. Narayana: Counselling and Guidance and Elementary School. New Delhi: Anmol Prakashan, 2002.
- 18. Sharma, R.A.: Fundamentals of Guidance and Counselling. Meerut: R. Lall Book Depot, 2001.
- 19. Sharma, Tarachand: Modern Methods of Guidance and Counselling. New Delhi: Swarup & Sons., 2002.
- 20. Shrivastava, K.K.: Principles of Guidance and Counselling. New Delhi: Kaniska Publication, 2003.
- 21. Singh, Raj: Educational and Vocational Guidance. New Delhi: Common Wealth

- Publishers, 1994.
- 22.Taneja, V.R.: First Course in Guidance and Counselling. Chandigarh: Mohindra Capital, 1972.
- 23.Vashist, S.R.: Vocational Guidance and Elementary School. New Delhi: Anmol Prakashan, 2002.

## **Paper XII (Option-6)**

### **PAPER – IV - ENVIRONMENTAL EDUCATION**

**Time: 3 Hours**

**Max. Marks: 40**

#### **NOTE FOR PAPER SETTERS:**

- 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 08 marks. There will be 4 short answer type questions of 2 marks each to be selected from the entire syllabus.
- iii) Two long answer type questions will be set from each the four units, out of which the students will be required to attempt one question from each unit. Long answer type questions will carry 08 marks each.
- iv) All questions will carry equal marks.

#### **COURSE 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-1**

#### **Environmental Education**

- Concept, definition, principles
- Need and importance
- Goals and objectives of environmental education for sustainable development.
- Various methods (survey, project and field Trip)
- Role of school and teacher- various activities and associated skills

##### **Unit-2**

#### **Global Environmental Issues.**

- Depletion of ozone layer.
- Global Warming (Green House Effect)
- The major Eco-systems and their conservation- terrestrial and aquatic Eco- system
- Environment Pollution

- Soil Pollution
- Water Pollution
- Air Pollution
- Noise Pollution

### Unit-3

#### Other **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.

### Unit-4

#### **Environment and Sustainable Development**

- Eco magazine
- Exhibition and plantation
- Eco-Club – meaning, objectives, structure, and activities

#### **Practicum/Sessionals**

Project report based on any local Environmental problem with suggested remedial measure.

#### **References**

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