

## **PAPER- IV & V: Pedagogy of a School Subject (Part-I)**

### **(x) Teaching of Computer Science**

**MaxMarks. 50**

**External: 35**

**Internal: 15**

#### **(A) OBJECTIVES**

To enable the student teachers to:

Understand the need & importance of computer education as a subject  
Understand the different teaching methodologies for teaching of computer education

Discuss the importance of computer curriculum & computer textbooks  
Understand how to set up & maintain a computer laboratory.

Acquire the knowledge on latest trends in information technology

#### **(B) SYLLABUS**

##### **SECTION - A**

- (i) Computer Science: concept, objectives & importance, applications of computer with special reference to education & society; Bloom s taxonomy of educational objectives.
- (ii) Curriculum: concept, design& principles of curriculum; integration of computer education with other subjects.

##### **SECTION - B**

- (i) Computer Science text book: meaning, types, importance and qualities;
- (ii) Computer Science Teacher: qualifications and qualities, professional growth and role in teaching learning process.

#### **Activities (any one of the following)**

- (i) Critical analysis of computer science curriculum at school level for ay class
- (ii) Analysis and interpretation of results and role of computers
- (iii) Use of any one educational software in teaching

#### **(C) BOOKS RECOMMENDED**

1. Abbott, C(2001). ICT: Changing EducationUKPsychology Press
2. 2Khan, N(2004)Educational TechnologyNew DelhiRajat Publications.
3. 3Mambi, Adam J(2010)ICT Law Book: A Source Book for Information and Communication TechnologiesTanzaniaMkukina Nyota Publishers Ltd
4. 4MangalS.K.& Mangal, Uma (2010)Essentials of Educational Technology New Delhi: PHI Learning Pvt. Ltd.