

## UTTARAKHAND OPEN UNIVERSITY, HALDWANI (NAINITAL)

**उत्तराखण्ड मुक्त विश्व विद्यालय, हल्द्वानी (नैनीताल )**  
**M.SC. ENVIRONMENTAL SCIENCE (MSCEN-12)**

*Last date of Submission: 15/05/2014*

**Course Title: Computer Programming**  
**Year: 2013-14**

**Course Code: ES -501**  
**Maximum Marks: 40**

**Section 'A' contains 08 short answer type questions of 5 marks each. Learners are required to answers 4 questions only. Answers of short answer-type questions must be restricted to 250 words approximately.**

- 1- Explain different type of memory used in computer systems.
- 2- Explain operating system and its types.
- 3- Classified the different type of Computer language
- 4- Define the different standard symbols used in Drawing flow chart (DFD).
- 5- Define following Iteration.
  - a. While loops
  - b. For loops
  - c. Break and continue
- 6- Explain the term in the context of C++ with example
  - a. Function overloading
  - b. Inheritance
- 7- Define the program development life cycle.
- 8- Define the process of running 'C' program.

**Section 'B' contains 04 long answer-type questions of 10 marks each. Learners are required to answers 02 questions only.**

- 1- Describe the ENVIT Integrated Field Data Collection system and its application in the field of Environmental Science.
- 2- Explain how ENUMS (enumeration) can be used to reduce the number of #define statement in the program.
- 3- Define Tree data structure and its advantage over Array, linked list and stack implementation.
- 4- Describe General purpose and Special purpose registers of CPU with schematic diagram.