



UTTARAKHAND OPEN UNIVERSITY, HALDWANI (NAINITAL)
उत्तराखण्ड मुक्त विश्वविद्यालय, हल्द्वानी (नैनीताल)

MCA-11/MCA-16 3rd YEAR 5th SEMESTER ASSIGNMENT

Last Date of Submission: 15 Dec, 2016

Course Title: Software Engineering

Course Code: MCA-17

Year: 2016-17

Maximum Marks: 30/40 Marks

Section 'A'

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

1. Answer the following:
 - a. Define software. Explain various types of software available.
 - b. Explain various characteristics of software.
2. Explain various tests conducted during coding phase of software engineering.
3. What is a DFD? Discuss various components of a DFD.
4. What is Software Requirement Specification (SRS)? What are the characteristics of a good SRS document?
5. What is software maintenance cost?
6. Distinguish verification with validation.
7. What are the categories of software risks?
8. What is data dictionary? What is its role in the context of a DFD?

Section 'B'

Section 'B' contains 04 long answer-type questions of 7/10 marks each. Learners are required to answer 02 questions only.

1. Elaborate on the role of quality control and quality assurance in achieving software quality.
2. Differentiate between Software Verification & Software Validation.
3. Explain the Waterfall Model. State four problems associated with it.
4. Describe the requirement engineering process and how the requirements are managed.