



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

BCA-11/BCA-16 3<sup>RD</sup> YEAR 5<sup>TH</sup> SEMESTER ASSIGNMENT

*Last Date of Submission: 15/12/2016*

**Course Title:** Software Engineering

**Course Code:** BCA-15

**Year:** 2016-17

**Maximum Marks:** 30/40

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. What is the difference between "white box testing" and "black box testing"?
2. Differentiate cohesion and coupling.
3. What are the characteristics of the software?
4. Define the term Prototyping.
5. State the purpose of Software Requirement Specification.
6. Distinguish between functional requirement and non-functional requirement with an example.
7. What is feasibility study? Why it is important?
8. What is the difference between a flow chart and a DFD?

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

1. Discuss the levels of testing.
2. What is software maintenance? Describe various categories of maintenance.
3. What is Spiral Model? What are the advantages and disadvantages of Spiral Model?
4. What is Waterfall Model? What are the advantages and disadvantages of Waterfall Model?