



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

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

*Last Date of Submission: 30/04/2017*

**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. Compare and contrast alpha testing with Beta testing.
2. What is the importance of data dictionary?
3. Elaborate the concept of risk management?
4. What is prototype modeling in SDLC?
5. Differentiate between coupling and cohesion measures in software.
6. What are the objectives of software design?
7. Define the term software. What are its characteristics?
8. Explain software Testing.

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

1. (a) What is spiral model? Explain with the help of a neat diagram.  
(b) Explain the role of system analyst.
2. (a) What is testing? What is the difference b/w black box and white box testing?  
(b) Compare and contrast DFD with Entity relationship diagram.
3. (a) What is software requirement specification? Explain the advantages of software requirement specification.  
(b) What is feasibility study? Explain types and steps involved in feasibility study.
4. Write a short note on :  
(i) Unit and Integration testing

- (ii) COCOMO Model
- (iii) Quality Assurance

