

Roll No

CS-603**B.E. VI Semester**

Examination, June 2016

Software Engineering and Project Management*Time : Three Hours**Maximum Marks : 70*

- Note:* i) Answer five questions. In each question part A, B, C is compulsory and D part has internal choice.
 ii) All parts of each question are to be attempted at one place.
 iii) All questions carry equal marks, out of which part A and B (Max.50 words) carry 2 marks, part C (Max.100 words) carry 3 marks, part D (Max.400 words) carry 7 marks.
 iv) Except numericals, Derivation, Design and Drawing etc.

Unit - I

1. a) Define software process.
 b) Explain the characteristics of the software.
 c) What is capability maturity model?
 d) Explain the term software development life cycle model. What are the consequences if an organization does not follow any life cycle model during development of the software product?

OR

Explain spiral model in detail and under what circumstances is it beneficial.

Unit - II

2. a) What are functional and Non-functional requirement?
 b) Why requirement elicitation is difficult?
 c) Explain use-case model.

- d) What is difference between function oriented and object oriented modelling? Explain in detail.

OR

Explain software requirement specification in detail and why it is necessary.

Unit - III

- a) What is coupling?
 b) What is cohesive module?
 c) Explain Data Flow Diagram (DFD).
 d) What is design? Discuss the objective of software design.

OR

Explain user interface design and UML.

Unit - IV

4. a) What is code inspections?
 b) What is equivalence partitioning?
 c) What are the uses of testing tools?
 d) Write short note on:
 i) Black-box testing
 ii) White box testing
 iii) Unit testing

OR

Describe integration testing and what are the approaches for integration testing.

Unit - V

- a) Explain reverse engineering.
 b) What is feasibility analysis?
 c) What are the objectives and features supported by software configurations management.
 d) Explain Risk Assessment and Mitigation.

OR

Explain cost estimation COCOMO model with example.
