Total No. of Questions :5]   [Total No. of Printed Pages :2

Roll No.......................

MCA 302
MCA. III Semester
Examination, December 2015
Software Engineering Methodologies

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

I. a) What is Software Quality Assurance?

b) What is Software Development Life Cycle (SDLC)?

c) Differentiate software engineering methods, tools and procedures.

d) What is feasibility study? What are the contents we should contain in the feasibility report?

OR

Explain the Activities of Project Planning.

UNIT - II

2. a) Why is good design important for a product?

b) Give any two drawbacks of RAD model.

c) Write a short note on four generation technology.

d) Explain incremental model. Define core product and detailed plan.

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OR

Define the following terms:

i) Product metrics   ii) Live variables

iii) FAN IN

UNIT - III

3. a) What is Coupling?

b) What is the need for modularity?

c) Enlist any three Decomposition Techniques.

d) Software project planning entails what activities? What are the difficulties faced in measuring the Software Costs?

OR

Draw the flow chart of Risk Management-Activity and explain various software risks.

UNIT - IV

4. a) What do you mean by Software Reliability?

b) What are the Factors of Software Quality?

c) Define Smoke Testing.

d) Explain various types of debugging techniques used in software testing.

OR

Explain various object oriented concepts used in software engineering. Give an example.

UNIT - V

5. a) What do you understand by Re-engineering?

b) Define CASE Tools.

c) List and describe four reasons why information systems are so important for business today.

d) List and describe the information systems serving each of the major functional areas of a business.

OR

How can a DSS helps to make decisions? How do MIS and DSS differs?

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