Total No. of Questions :8]   [Total No. of Printed Pages :2

Roll No ....

MCTA-204
M.E./M.Tech. II Semester
Examination, December 2016
Software Engineering and Project Management
Time : Three Hours

Maximum Marks : 70

Note : i) Attempt any five questions.
ii) All questions carry equal marks.

1. a) Discuss about the software development life cycle. Why it is important to adhere to life cycle model while developing a large software product?

   b) What do you mean by software engineering process? How is it different from conventional engineering process? Discuss.

2. a) What do you mean by contract management? Explain activities covered by software project management.

   b) What is SRS document? Explain importance of SRS.

3. a) Briefly explain about PERT and CPM scheduling.

   b) Explain DFD with suitable example.

4. a) What is Data Modeling? What is the importance of entity relationship diagram in it?

   b) What is Capability Maturity Model (CMM)? Compare between CMM and CMMI.

5. a) What is Software Testing? Briefly discuss the verification and validation.

   b) Explain about the functional and structural testing.

6. a) Explain software risk management with example.

   b) Explain the major parts in building the Software Quality Assurance (SQA) plan and its role in product development life cycle.

7. a) Discuss the software quality attributes in brief.

   b) Explain Constructive Cost Models (COCOMO) with example.

8. Write short notes on any three :
   a) Software Quality assurance plan
   b) System testing
   c) Gantt chart
   d) Requirement Analysis
   e) SLIM

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