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

Roll No ....

IT-6002 (CBGS)
B.E. VI Semester
Examination, May 2018
Choice Based Grading System (CBGS)
Software Engineering and Project Management
Time : Three Hours

Maximum Marks : 70

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

1. Explain the following: 14
   a) Software characteristics
   b) Software components
   c) Principles of software engineering

2. a) How spiral model reduces risk in software development life cycle?   7
   b) Explain function point metrics. From the given data calculate function points (fp) for a project:

   Inputs = 8, Output = 12, Inquiries = 4, Logical Files = 2, Interfaces = 1, SFi = 41. Assume that all complexity adjustment values are average.   7

3. a) What are the different measures for measuring software quality? Discuss them in detail.   7
   b) Why Size Oriented metrics is not universally accepted as the best way to measure the process of software development.   7

4. a) What is Software Requirement Specification (SRS)? State its principles and characteristics.   7
   b) What is requirement engineering? Explain different traditional methods of requirement engineering.   7

5. a) What is software design? Explain various principles and design concepts of software design.   7
   b) What are the various elements of good design? State guidelines for graphical user interface.   7

6. a) Define Scheduling of Project and how task network helps in scheduling.   7
   b) What are the various Software Configuration Management Tasks? What is Version Control?   7

7. a) What is SQA? Explain in detail the process of Formal Technical Review (FTR).   7
   b) Explain component based software engineering.   7

8. Explain the following: 14
   a) Rapid prototyping
   b) Integration testing
   c) Black box testing
   d) Software Agents

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