Roll No ....

IT-6002 (CBGS)
B.E. VI Semester
Examination, November 2019
Choice Based Grading System (CBGS)
Software Engineering and Project Managements
Time : Three Hours

Maximum Marks : 70

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

1. a) What is the principal aim of the software engineering discipline? What does the discipline of software engineering discuss? 7
   b) *Define Agile process.* Give advantages and disadvantages in Agile development. 7

2. a) Describe the various phases of RAD model and list out the model's strengths and weaknesses. 7
   b) Explain throw-away prototyping and evolutionary prototyping. Discuss the differences between the two. 7

3. a) Describe the difference between process and product metrics. 7
   b) Software project planning entails what activities? What are the difficulties faced in measuring the Software Costs? 7

4. a) Explain the tasks involved in Requirements Engineering. 7
   b) What are the objectives of software design? How do we transform an informal design to a detailed design? 7

5. a) What are the testing principles the software engineer must apply while performing the software testing? 7
   b) Discuss the important issues that a SRS must address. 7

6. Explain the following: 14
   a) Verification and validation
   b) White-box and black-box testing
   c) Unit and integration testing
   d) Test-case design

7. a) Compute the function point value for a project with the following information domain characteristics.
   Number of external inputs: 32
   Number of external outputs: 60
   Number of external inquires: 24
   Number of external interface files: 2
   Number of internal logical files: 8
   Assume that all complexity adjustment values are average. 7
   b) Explain the framework suggested by CMM for managing software process. Discuss its impact on software development life cycle. 7

8. a) Explain the following: 7
   i) Component-based software engineering
   ii) Re-engineering
   b) What is the role of effort estimation in a project and why is it important to do this estimation early? 7

******