

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 inquiries: 24
Number of external interface files: 2
Number of internal logical files: 8
Assume that all complexity adjustment values are average. http://www.rgpvonline.com 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
