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Roll No. :

333653(33)

B. E. (Sixth Semester) Examination, April-May 2020

(New Scheme)

(IT Branch)

**SOFTWARE ENGINEERING & PROJECT
MANAGEMENT**

Time Allowed : Three hours

Maximum Marks : 80

Minimum Pass Marks : 28

Note : Attempt all questions. Part (a) of each question is compulsory and carries 2 marks. Attempt any two parts from (b), (c) & (d) of each question which carries 7 marks each.

Unit-I

1. (a) Define Software and Software Engineering. 2

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- (b) Discuss the various managerial issues that are to be taken into consideration in the software development process. 7
- (c) Explain Win-Win Spiral model for project management process for software development. 7
- (d) Explain the following software process models : 7
- (i) Rapid Application Development Model
- (ii) Incremental Model

Unit-II

2. (a) Explain functional and non-functional requirements. 2
- (b) What is SRS? How SRS is useful in software development? 7
- (c) "SCM will sequentially control the changes during the software development." Comment. 7
- (d) Explain requirement engineering. Also explain each step of requirement engineering process. 7

Unit-III

3. (a) What do you mean by good design? 2
- (b) Explain cohesion and coupling related to software design process. 7
- (c) Explain Milestone, walkthrough and inspection. 7
- (d) Explain Architectural design and user interface design. 7

Unit-IV

4. (a) Write difference between Verification and Validation. 2
- (b) What are the different types of tests that software undergoes during the life cycle? 7
- (c) Explain difference between white box and black box testing. 7
- (d) What is Debugging? And discuss their types. 7

Unit-V

5. (a) Explain Software Maintenance. 2

- (b) Explain software cost estimation techniques. 7
- (c) Describe that CASE tools. 7
- (d) Assume that size of a semi-detached type software project is 30000 LOC. Compute the effort and duration of the project. 7