

322654(22)

B. E. (Sixth Semester) Examination,

April-May 2020

(New Scheme)

(Computer Science and Engg. Branch)

**SOFTWARE ENGINEERING & PROJECT
MANAGEMENT**

Time Allowed : Three hours

Maximum Marks : 80

Minimum Pass Marks : 28

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

1. (a) What is legacy software? 2
(b) Explain Capability maturity Model Integration? 7

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- (c) What is RAD model? Explain application and features of RAD model. 7
- (d) Explain Spiral model with its advantages and disadvantages. 7
2. (a) Define feasibility study? 2
- (b) Explain Functional and non functional requirements in terms of software engineering. 7
- (c) What is SRS? Which qualities are required for SRS. 7
- (d) Explain about Requirement Engineering Process? 7
3. (a) Describe Modularization. 2
- (b) What is Software architectural design? Explain with block diagram. 7
- (c) What is the need of Coupling and Cohesion? Also explain its types. 7
- (d) Explain top down and bottom up approach in terms of Software Design technique. 7
4. (a) What is System testing? 2

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- (b) What is Unit testing. Also explain its benefits. 7
- (c) Write down the difference between Black Box Testing and White Box Testing. 7
- (d) Discuss about testing strategies for conventional software. 7
5. (a) Write down the advantages of CASE tools. 2
- (b) What is Risk Management? Explain principle of Risk Management. 7
- (c) What is Software Quality Assurance? Explain Major Software Quality Assurance Activities. 7
- (d) Write down the short notes on the following : 7
(any two)
- (i) Formal Technical Review
- (ii) Walkthrough
- (iii) ISO 9000 quality standards