322654(22)

B. E. (Sixth Semester) Examination, April-May 2021

(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.*

Unit-I

1. (a) Define Software?   2

(b) Explain waterfall models with diagram in detail? 7

(c) What do you mean by capability maturity model explain in detail. 7

(d) Draw and explain generic view of process software engineering. 7

Unit-II

2. (a) What do you understand by Requirement Elicitation? 2

(b) Write difference between functional and non-function requirements? 7

(c) Explain contact model in detail? 7

(d) Explain why software requirement specification is needed during making of project? 7

Unit-III

3. (a) Write any two difference between coupling and Cohesion? 2

(b) Draw and explain architectural design? 7

(c) What do you mean by object oriented design explain along with its features. 7

(d) Explain size oriented measures by Haustead's? 7

Unit-IV

4. (a) What do you mean by system testing? 2

(b) Write atleast 10 difference between black box testing and white box testing? 7

(c) Explain debugging process alongwith its approaches? 7

(d) What metrics are nead for maintenance of software quality explain? 7

Unit-V

5. (a) Brief about 4p's in software project management? 2

(b) Draw and explain taxonomy of Case tools? 7

(c) Explain different types of software risk management? 7

(d) Write ISO 9000 quality standards? 7