

Code: CS7T5A

**IV B.Tech - I Semester – Regular/Supplementary Examinations
October - 2019**

**SOFTWARE ENGINEERING
(COMPUTER SCIENCE & ENGINEERING)**

Duration: 3 hours

Max. Marks: 70

PART – A

Answer *all* the questions. All questions carry equal marks

11 x 2 = 22 M

1. a) Define and Name software myths.
- b) List the elements of a software process.
- c) Explain requirements elicitation.
- d) What are non functional requirements?
- e) What are the different types of Cohesion?
- f) What is component level design?
- g) What is meant by Cyclomatic Complexity?
- h) Define metrics for testing.
- i) Write about software testing strategies.
- j) What is meant by software risk?
- k) Define SQA plan.

PART – B

Answer any **THREE** questions. All questions carry equal marks.

3 x 16 = 48 M

2. a) What is a process model ? Describe the process model that you would choose to manufacture a car. Explain giving suitable reasons. 8 M
- b) Explain the following: 8 M
- a) Spiral model
 - b) RAD model
3. a) Explain the various aspects of the requirements engineering. 8 M
- b) Define CRC and draw class diagram for Online Reservation System. 8 M
4. a) Explain the elements of the design model? 8 M
- b) Define Coupling and its types. 8 M
5. a) Describe unit testing and integration testing. How test plans are generated? 8 M
- b) What is the need of Black box testing and explain equivalence partitioning and Boundary value Analysis. 8 M
6. a) Define Risk. Explain the needs and activities or risk management. 8 M
- b) Explain the Software Quality Assurance. 8 M