

Code: CS7T5A

**IV B.Tech - I Semester – Regular Examinations – October 2017**

**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) What is the prime objective of software engineering?
- b) Define software process. State the important features of a process.
- c) What do you meant by use case?
- d) What are different Requirements?
- e) Enumerate different data flow architectures.
- f) How do you describe software interface?
- g) Distinguish between verification and validation.
- h) Write short notes on equivalence partitioning.
- i) Write the types of system tests.
- j) What is Quality?
- k) Define software risks.

## PART – B

Answer any **THREE** questions. All questions carry equal marks. 3 x 16 = 48 M

2. a) Explain iterative waterfall for software life cycle and various activities in each phase. 8 M  
b) Explain spiral model for software life cycle and various activities in each phase. 8 M
3. Explain the ways and means for collecting the software requirements and how are they organized and represented? 16 M
4. a) Explain about the various design concepts considered during design. 8 M  
b) Explain data architectural and procedural design for a software. 8 M
5. a) Discuss the differences between black box and white box testing models. 8 M  
b) What do you mean by system testing? Explain in detail. 8 M
6. a) What are the different quality parameters to ensure quality of the software? 10 M  
b) Identify various Risks involved in software. 6 M