Code: 15A05401

www.FirstRanker.com

www.FirstRanker

B.Tech II Year II Semester (R15) Supplementary Examinations December 2018

## **SOFTWARE ENGINEERING**

(Common to CSE and IT)

Time: 3 hours Max. Marks: 70

## PART – A

(Compulsory Question)

\*\*\*\*

- 1 Answer the following:  $(10 \times 02 = 20 \text{ Marks})$ 
  - (a) Name the different approaches to software process assessments.
  - (b) How does an incremental model differ from prototyping?
  - (c) State the need for requirements gathering.
  - (d) Draw the class diagram for sensor.
  - (e) Explain data design.
  - (f) What are constrained dependencies?
  - (g) State the three golden rules on interface design.
  - (h) What is the fork & join in use case?
  - (i) What is the difference between deep structure testing and surface structure testing?
  - (j) Draw the state diagram for the account class.

## PART - B

(Answer all five units,  $5 \times 10 = 50 \text{ Marks}$ )

[ UNIT – I ]

- 2 (a) Explain various characteristics of software.
  - (b) Explain unified process and elaborate on the unified process work products.
- 3 (a) Explain personal and team process models.
  - (b) Briefly discuss the agile process.

II – TINU

4 Draw an we-case diagram for buying a stock using an on-line brokerage account.

OR

Why do we say that the analysis model represents a snapshot of a system in time?

(UNIT – III)

6 Discuss various steps involved in component based development.

OR

7 Explain architectural context diagram for the Safe Home security function.

(UNIT – IV

- 8 (a) Explain about interface design steps.
  - (b) Explain the steps involved in WebApp Interface Design.

OR.

9 Draw the Swim lane diagram for prescription refill function.

UNIT - V

- 10 (a) Discuss the importance of test strategies for conventional software.
  - (b) Describe various functional and unit testing techniques in detail.

OR

- 11 (a) Explain about validation testing methodology.
  - (b) Compare the block box testing with white box testing.

\*\*\*\*