Code: 13A05504

B.Tech III Year I Semester (R13) Regular Examinations December 2015

SOFTWARE ENGINEERING

(Common to CSE and IT)

Time: 3 hours Max. Marks: 70

PART - A

(Compulsory Question)

- 1 Answer the following: $(10 \times 02 = 20 \text{ Marks})$
 - What is software engineering? What are its applications? (a)
 - State and explain unified process model with its phases. (b)
 - Discuss the role of developer in negotiating and validating requirements of the system to be (c) developed.
 - Why scenario based modeling is getting popular in the field of requirements modeling? (d)
 - What is coupling? How it differs from cohesion? (e)
 - Describe software architecture with IEEE definition and its types. (f)
 - Why interface analysis is critical in UI development? (g)
 - Discuss testing strategy for small and large software testing. (h)
 - State various responsibilities and roles of software project manager. (i)
 - What are different types of software maintenance? (i)

PART - B

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

[UNIT – I]

Compare various software engineering process models with their pros & cons and applications. 2

3 For the development of Banking software which software process model will be most suitable? Explain suggested model with processes associated with it.

UNIT – II

Develop Software Requirement Specification with requirement understanding for online result 4 analysis system for college.

OR

Develop UML model for Digital Library System with structural and behavioral modeling diagrams. 5

[UNIT - III]

Design software architecture for ERP related to Student Management System with proper styles. 6

7 Create class based component design with architecture modeling of UML for web based movie ticket management system for multiplexes.

UNIT - IV

8 State and explain Golden Rules of UI? How these rules affect on UI analysis and design?

OR

9 Compare black box testing with white box testing approaches with real test cases for any software project.

[UNIT – V]

10 Write down algorithm for software project estimation with COCOMO Model.

OR

- Write short right MAN Software Reverse Engineering. 11 MANARESULTS.CO.IN
 - (a)
 - (b) SCM.
