Code No: 812AJ

R13

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
MCA II Semester Examinations, April/May - 2019
SOFTWARE ENGINEERING

Time: 3 Hours   Max. Marks: 60

Note: This question paper contains two parts A and B.
Part A is compulsory which carries 20 marks. Answer all questions in Part A. Part B consists of 5 Units. Answer any one full question from each unit. Each question carries 8 marks and may have a, b, c as sub questions.

PART - A
5 × 4 Marks = 20

1.a) Write a short note on Participator myths and its counter reality. [4]
 b) What is an use case diagram? Explain the main purpose of use case modelling. [4]
 c) Explain briefly about various architectural styles. [4]
 d) Differentiate between Black-box and White-box testing techniques. [4]
 e) Explain briefly about various risk components and drivers. [4]

PART - B
5 × 8 Marks = 40

2. Demonstrate working of evolutionary process models with help of neat diagram. [8]

OR

3. Explain briefly about CMMI model. What are generic goals of each level of model? [8]

4. Elaborate working of requirements engineering process in detail. Mention work products of every phase. [8]

OR

5.a) Write a short note on context based models.
 b) Write a short note on behavioral models. [4+4]

6.a) Explain the terms cohesion and coupling in detail.
 b) Explain mapping data flow into software architecture. [4+4]

OR

7.a) What is Software Architecture? What is importance of architecture?
 b) Explain briefly about Architectural Design procedure. [4+4]

8. Explain briefly about metrics for Design model. [8]

OR

9. What is unit testing? Explain about driver and stub procedure in detail. [8]

10. What is Formal technical review? Explain about guidelines to be adopted during review procedure. [8]

OR

11. What is a risk? Explain about risk Identification, Refinement, Projection process in detail. [8]