R17

Code No: 844AG

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
MCA IV Semester Examinations, April/May - 2019
SOFTWARE PROCESS AND PROJECT MANAGEMENT

Time: 3hrs   Max.Marks:75

Note: This question paper contains two parts A and B.
Part A is compulsory which carries 25 marks. Answer all questions in Part A. Part B consists of 5 Units. Answer any one full question from each unit. Each question carries 10 marks and may have a, b, c as sub questions.

PART - A

5 × 5 Marks = 25

1.a) What are the salient features of team software process? Compare with personal software process.   [5]
  b) Differentiate between meta process and macro process.   [5]
  c) What is achieved by visible milestones in the life cycle?   [5]
  d) List the responsibilities of software architecture team over the project life cycle. [5]
  e) Depict the real results of major mile stones in a modern process.   [5]

PART - B

5 × 10 Marks = 50

2.   Describe the six step process for improving the software process.   [10]

OR

3.   What are the characteristics of CMM level3 organization? Discuss the key actions required to advance to level 4 organizations.   [10]

4.   Describe five improvements to the basic waterfall process that would eliminate most of the development risks.   [10]

OR

5.a) How are implementation sets are evaluated, assessed and measured?
  b) Elaborate primary evaluation criteria of inception phase.   [5+5]

6.   What is meant by a workflow? What are the seven top-level workflows? Explain the relative levels of effort expected across the phases in these workflows.   [10]

OR

7.a) Compare top-down and bottom-up approaches of project planning.
  b) What is the basic content of status assessment reviews?   [5+5]

8.   The project organization represents the architecture of the team and needs to evolve consistent with the project plan captured in the work break down structure. Explain how the team's centre of gravity shifts over the life cycle.   [10]

OR

9.a) Discuss change traffic as a quality indicator.
  b) What are the goals of software metrics?   [5+5]

10. How does a modern process framework exploit several critical approaches to resolve recurring issues in the conventional projects? Give illustrative example.   [10]

OR

11. Demonstrate any five best practices for software project management.   [10]