**R13**

Code No: 814AZ

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD**
**MCA IV Semester Examinations, August - 2017**
**SOFTWARE PROJECT MANAGEMENT**

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)   Describe requirements-driven functional decomposition.                                      [4]
  b)   What are three levels of process and their attributes?                                      [4]
  c)   Discuss about elaboration phase.                                                             [4]
  d)   Define stakeholder. Who are stakeholders? Explain.                                          [4]
  e)   Write about results of major milestones in a modern process.                               [4]

**PART - B**

5 × 8 Marks = 40

2.a)   Explain waterfall model in theory.
  b)   Discuss about pragmatic software cost estimation.                                           [4+4]

**OR**

3.a)   Explain about the three generations of software economics.
  b)   Discuss about conventional software management performance.                                 [4+4]

4.a)   Describe improving automation through software environment.
  b)   Write any ten principles of conventional software management.                               [4+4]

**OR**

5.a)   Explain about object-oriented methods and visual modeling.
  b)   What are the crucial attributes of successful software project managers? Explain.  [4+4]

6.a)   Discuss in detail about test artifacts.
  b)   Explain model-based architecture in a technical perspective.                                [4+4]

**OR**

7.     Explain in detail about the artifact sets.                                                  [8]

8.a)   What are the first-level, second-level and third level WBS elements?
  b)   What are the drawbacks of conventional WBS?
  c)   Distinguish iteration readiness review and iteration assessment review.                     [3+2+3]

**OR**

9.a)   With the help of a neat diagram, explain the software team evolution over the life cycle.
  b)   What are the states of SCO? Explain with example.                                           [4+4]

10.a)  Define metric. Explain reliability metrics.
  b)   Write the basic parameters of earned value system.                                          [4+4]

**OR**

11.a)  Write about 80/20 lessons.
  b)   Write an overall software acquisition process of CCPDS-R.                                    [4+4]

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