

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]