

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD****MCA IV Semester Examinations, December - 2019****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) Discuss about adversarial stakeholder relationships. [4]
- b) Explain about object-oriented methods and visual modeling. [4]
- c) Discuss about pragmatic artifacts. [4]
- d) Describe default project organization and responsibilities. [4]
- e) Give an overview of the seven core metrics. [4]

**PART - B****5 × 8 Marks = 40**

- 2.a) Write and explain top 10 industrial software metrics.
- b) Discuss about return on investments in different domains. [4+4]

**OR**

- 3.a) Explain about late risk resolution with a neat diagram.
- b) Briefly discuss about software economics. [4+4]

- 4.a) Discuss about three levels of process and their attributes.
- b) What are the principles of modern software management? [4+4]

**OR**

- 5.a) What are staffing principles? Explain.
- b) Explain about mapping the exponent components of COCOMO II to top Ten principles of modern process. [4+4]

- 6.a) Discuss about artifact evolution over the life cycle.
- b) Explain about model based architecture in a technical perspective. [4+4]

**OR**

- 7.a) Explain in detail about the construction phase.
- b) What are management artifacts? Explain in detail. [4+4]

- 8.a) What are concerns of different stakeholders?
- b) Give the major milestones in the process development.
- c) Explain about the artifacts and life-cycle emphasis associated with each workflow. [2+2+4]

**OR**

- 9.a) Describe evolutionary work breakdown structures.
- b) What are software assessment team activities? Explain. [4+4]

- 10.a) What are quality indicators? Explain in detail.
- b) Explain about process discriminators that result from differences in stakeholder cohesion. [4+4]

**OR**

- 11.a) What are software management best practices? Explain.

- b) Describe common subsystem overview of CCPDS-R. [4+4]