

Code No: 117HP

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD**B. Tech IV Year I Semester Examinations, November/December - 2016****SOFTWARE PROJECT MANAGEMENT****(Computer Science and Engineering)****Time: 3 Hours****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**(25 Marks)**

- 1.a) Define late design breakage. [2]
- b) What are the parameters of cost models? [3]
- c) What is configurable process? [2]
- d) What are five staffing principles? [3]
- e) Define elaboration phase. [2]
- f) What is WBS? [3]
- g) What are the responsibilities of SEEA? [2]
- h) Explain about configuration baseline. [3]
- i) What are the sources of architectural risks? [2]
- j) Define MTBF and maturity. [3]

Part-B**(50 Marks)**

- 2.a) Explain waterfall model.
 - b) Describe the three generations of software economics. [5+5]
- OR**
3. Explain the following:
 - a) Adversarial stakeholder relationships
 - b) Requirements driven functional decomposition [5+5]
- 4.a) Explain about object-oriented methods and visual modeling.
 - b) What are the modern process approaches for solving conventional problems? [6+4]
- OR**
- 5.a) How to achieve required software quality? Explain.
 - b) Write and explain any ten principles of conventional software engineering. [5+5]
- 6.a) Briefly discuss about engineering stages.
 - b) Explain in detail about test artifacts. [5+5]
- OR**
- 7.a) Write the primary objectives of Construction and Transition phases.
 - b) What are engineering artifacts? Explain. [5+5]

- 8.a) Discuss about evolutionary work breakdown structures.
b) What are the activities of software assessment team? Explain. [5+5]

OR

- 9.a) Explain in detail about planning guidelines.
b) Discuss about automation building blocks. [6+4]

- 10.a) What are process discriminants? Briefly explain.
b) Explain culture shifts for modern process transitions. [5+5]

OR

- 11.a) What are management indicators? Explain.
b) Explain top ten software management principles. [5+5]

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