

Code No: 155GB

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

B. Tech III Year I Semester Examinations, March - 2024

SOFTWARE PROJECT MANAGEMENT

(Common to CSIT, CSE(DS))

Time: 3 Hours

Max. Marks: 75

Note: i) Question paper consists of Part A, Part B.

ii) Part A is compulsory, which carries 25 marks. In Part A, Answer all questions.

iii) In Part B, Answer any one question from each unit. Each question carries 10 marks and may have a, b as sub questions.

PART – A**(25 Marks)**

- 1.a) What are cost models? [2]
- b) Describe requirements-driven functional decomposition. [3]
- c) Define configurable process. [2]
- d) Explain about reusing existing components in detail. [3]
- e) What are primary objectives of inception phase? [2]
- f) Describe a default outline for an architecture description. [3]
- g) What are components of organizational infrastructure? [2]
- h) What are minor milestones? [3]
- i) Define early risk resolution. [2]
- j) Explain about architectural risk in detail. [3]

PART – B**(50 Marks)**

- 2.a) List and explain top 10 industrial software metrics.
 - b) Discuss about the three generations of software economics. [5+5]
- OR**
- 3.a) Explain about the Waterfall model in theory with a neat diagram.
 - b) What constitutes a good software cost estimate? Explain. [5+5]
- 4.a) Explain about improving software processes.
 - b) List and describe the principles of modern software management. [5+5]
- OR**
- 5.a) What are five staffing principles? Explain in detail.
 - b) Explain about the process exponent parameters of COCOMO II. [5+5]
- 6.a) Explain about the elaboration phase in detail.
 - b) Describe pragmatic artifacts in detail. [5+5]
- OR**
- 7.a) Discuss about model-based software architectures in a management perspective.
 - b) Explain about the artifacts and life-cycle emphases associated with each workflow. [5+5]

- 8.a) Describe life-cycle architecture milestone in detail.
b) Discuss about software architecture and software management teams. [5+5]

OR

- 9.a) Explain about periodic status assessments.
b) What is Software Change Order? Explain in detail. [5+5]

10. Explain the following:
a) Management indicators
b) Process maturity. [5+5]

OR

11. Explain the following:
a) Teamwork among stakeholders
b) Modern software economics. [5+5]

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Papers March-2024