

R18

Code No: 157DX

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

B. Tech IV Year I Semester Examinations, December-2023/January-2024

SOFTWARE PROCESS AND PROJECT MANAGEMENT

(Common to CSE, IT, ITE, CSE(N))

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 is an entropy? [2]
- b) What is meant by a repeatable process? [3]
- c) What are the popular cost estimation models? [2]
- d) Outline the typical software development plan. [3]
- e) Define the term pragmatic planning. [2]
- f) Write down the default content of status assessment reviews. [3]
- g) What is a metaprocess? [2]
- h) State the need of quality indicators. [3]
- i) List out the features of CCPDS-R. [2]
- j) Identify the potential risks in transition of traditional to modern process. [3]

PART – B

(50 Marks)

- 2.a) Explain about key process areas of repeatable level.
- b) What is CMMI? Explain about CMMI terminology and structure. [5+5]

OR

- 3.a) Write about some common misconceptions about the software process.
- b) Explain in detail about the managed process. [5+5]

- 4.a) Describe artifact sequences across a typical life cycle with a neat diagram.
- b) Explain modern process approaches for solving conventional problems. [5+5]

OR

- 5.a) Explain about engineering and production stages.
- b) Discuss about improving team effectiveness in detail. [5+5]

- 6.a) Explain about the artifacts and life-cycle emphases associated with each workflow.
- b) Discuss about planning guidelines in iterative process. [5+5]

OR

- 7.a) Describe life-cycle architecture milestone in detail.
- b) Discuss about the iteration planning process. [5+5]

QA QA QA QA QA QA QA QA QA

8.a) What are quality indicators? Explain in detail.

b) Explain about round-trip engineering with a neat diagram.

[5+5]

OR

9.a) Describe infrastructures in process automation.

b) Discuss about Software development team and software assessment team.

[5+5]

10. Explain the following:

a) Software management best practices

b) Common subsystem overview of CCPDS-R case study.

[5+5]

OR

11. Explain the following:

a) Modern software economics

b) Core metrics of CCPDS-R case study.

[5+5]

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QA QA QA QA QA QA QA QA QA

QA QA QA QA QA QA QA QA QA

QA QA QA QA QA QA QA QA QA