

Code No: 127HP

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

B. Tech IV Year I Semester Examinations, December - 2019

SOFTWARE PROJECT MANAGEMENT

(Common to CSE, IT)

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) | What is COCOMO?   | [2] |
| b)   | Explain expenditures by activity for a conventional software project. | [3] |
| c)   | What are disadvantages of custom development?                         | [2] |
| d)   | What are peer inspections?  | [3] |
| e)   | What is deployment set?   | [2] |
| f)   | Describe typical software development plan outline.                   | [3] |
| g)   | What is SEPA?   | [2] |
| h)   | Explain about minor milestones.                                       | [3] |
| i)   | What is CCPDS-R about?  | [2] |
| j)   | Describe the default pattern of life-cycle metrics evolution.         | [3] |

## PART-B

(50 Marks)

- |      |  |       |
|------|--|-------|
| 2.a) | Explain three generations of software economics leading to the target objective. |       |
| b)   | Describe Waterfall model in theory.  | [5+5] |
| OR   |  |       |
| 3.a) | Discuss in detail about the predominant cost estimation process.                 |       |
| b)   | Explain about late risk resolution and adversarial stakeholder relationships.    | [5+5] |
| 4.a) | What are important trends in improving software economics? Explain.              |       |
| b)   | Discuss about transitioning to an iterative process.                             | [5+5] |
| OR   |  |       |
| 5.a) | Explain about improving team effectiveness.                                      |       |
| b)   | What are the principles of modern software management? Explain.                  | [5+5] |
| 6.a) | What are management artifacts? Explain in detail.                                |       |
| b)   | Describe primary evaluation criteria of elaboration phase.                       | [7+3] |
| OR   |  |       |
| 7.a) | Explain about model-based software architecture in an architecture perspective.  |       |
| b)   | Give an overview of artifact sets.   | [7+3] |

8R 8R 8R 8R 8R 8R 8R

- 8.a) What are software process workflows? Explain.
- b) Discuss about configuration baseline with example.

[5+5]

OR

- 9.a) Explain in detail about conventional WBS issues.
- b) Describe default about project organization and responsibilities in detail.

[5+5]

8R 8R 8R 8R 8R 8R 8R

- 10. Explain the following:
  - a) Software management best practices
  - b) Modern software economics

[5+5]

OR

- 11. Explain the following:
  - a) Denouement
  - b) Pragmatic software metrics.

[5+5]

8R 8R 8R 8R 8R 8R 8R

--ooOoo--

8R 8R 8R 8R 8R 8R 8R

8R 8R 8R 8R 8R 8R 8R

8R 8R 8R 8R 8R 8R 8R

8R 8R 8R 8R 8R 8R 8R

8R 8R 8R 8R 8R 8R 8R