

Code No: 137HB**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD****B. Tech IV Year I Semester Examinations, December - 2019****SOFTWARE PROCESS AND 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 as sub questions.

PART – A**(25 Marks)**

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|------|--|-----|
| 1.a) | Define initial process. | [2] |
| b) | Write brief notes on PSP. | [3] |
| c) | What is meant by software economics? | [2] |
| d) | Define the term artifact set. | [3] |
| e) | Explain cost estimation process. | [2] |
| f) | Write brief notes on major milestones in software process. | [3] |
| g) | Write about evolution of organizations. | [2] |
| h) | Write brief notes on metrics automation. | [3] |
| i) | What is meant by early risk resolution? | [2] |
| j) | Explain about evolutionary requirements. | [3] |

PART – B**(50 Marks)**

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|------|--|-------|
| 2. | Describe the principles of software process change and TSP. | [10] |
| | OR | |
| 3. | Discuss about software process assessment. And also discuss about CMM. | [10] |
| 4. | Explain about improving software process and improving term effectiveness. | [10] |
| | OR | |
| 5.a) | Explain the principles of conventional software engineering. | |
| b) | Describe the phase of software project elaboration. | [5+5] |
| 6. | Describe the conventional WBS issues and planning guidelines. | [10] |
| | OR | |
| 7. | Explain about the iteration planning process and pragmatic planning. | [10] |
| 8. | What are the software project quality indicators? Explain them. | [10] |
| | OR | |
| 9. | What is a seven core metrics? Discuss about pragmatic software metrics. | [10] |
| 10. | What are the software management best practices? Explain them. | [10] |
| | OR | |
| 11. | Discuss about next generation software economics. | [10] |