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|  | <b>Sanjay Ghodawat University, Kolhapur</b><br>Established as State Private University under Govt. of Maharashtra. Act No XL, 2017 |  | 2018-19<br>EXM/P/09/01 |
| <b>Year and Program: 2018-19</b>  | <b>School of Technology</b>  | <b>Department of Computer Science</b>                        |                        |
| <b>Course Code: CST211</b>  | <b>Course Title: Software Engineering</b>  | <b>Semester – III</b>  |                        |
| <b>Day and Date</b> <i>Wednesday</i><br><i>12/06/2019</i>                         | <b>End Semester Examination (ESE)</b>  | <b>Time: Max Marks: 100</b><br><i>2:30 to 5:30 pm 3 Hrs.</i> |                        |

**Instructions:**

- 1) All questions are compulsory.
- 2) Draw suitable diagrams wherever necessary.
- 3) Figures to the right indicate full marks.

| Q.1 | Solve the following   | Marks | Bloom's Level  | CO  |
|-----|---|-------|----------------|-----|
| a)  | What are different categories of computer software?                   | 07    | L <sub>1</sub> | CO1 |
| OR  |   |       |                |     |
| a)  | Explain software myths in detail?                                     | 07    | L <sub>2</sub> | CO1 |
| b)  | Explain Waterfall model in detail with neat labeled diagram.          | 08    | L <sub>2</sub> | CO2 |
| OR  |   |       |                |     |
| b)  | What is incremental model? Explain with diagram.                      | 08    | L <sub>1</sub> | CO2 |
| Q.2 | Solve the following   |       |                |     |
| a)  | Identify requirement negotiation techniques?                          | 07    | L <sub>3</sub> | CO3 |
| OR  |   |       |                |     |
| a)  | Build Decision Matrix with proper example.                            | 07    | L <sub>3</sub> | CO3 |
| b)  | Identify different agile methodologies in detail.                     | 08    | L <sub>3</sub> | CO4 |
| OR  |   |       |                |     |
| b)  | Explain Scrum Methodology with suitable diagram.                      | 08    | L <sub>2</sub> | CO4 |
| Q.3 | Solve any Two   |       |                |     |
| a)  | What are software characteristics in detail?                          | 08    | L <sub>1</sub> | CO1 |
| b)  | What is CMM? Illustrate Capability Maturity Model Integration (CMMI). | 08    | L <sub>1</sub> | CO2 |
| c)  | Construct SRS for flight management system?                           | 08    | L <sub>3</sub> | CO3 |
| d)  | Explain how we can identify stakeholders?                             | 08    | L <sub>2</sub> | CO4 |

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|     |   |    |                |     |
|-----|---|----|----------------|-----|
| Q.4 | <b>Solve any Two</b>  |    |                |     |
|     | a) Explain product backlog.   | 09 | L <sub>2</sub> | CO5 |
|     | b) Explain sprint review.   | 09 | L <sub>2</sub> | CO5 |
|     | c) Identify steps to create product roadmap.  | 09 | L <sub>3</sub> | CO5 |
| Q.5 | <b>Solve any Two</b>  |    |                |     |
|     | a) Distinguish Statement coverage testing & Branch coverage testing with suitable examples. | 09 | L <sub>4</sub> | CO6 |
|     | b) What is system testing? Explain all testing strategies in system testing.                | 09 | L <sub>2</sub> | CO6 |
|     | c) Compare mutation testing & multiple condition coverage testing with suitable examples.   | 09 | L <sub>4</sub> | CO6 |
| Q.6 | <b>Solve any Three</b>  |    |                |     |
|     | a) Explain epic and user stories with example.  | 06 | L <sub>2</sub> | CO5 |
|     | b) Explain role of scrum master.  | 06 | L <sub>2</sub> | CO5 |
|     | c) Explain integration testing  | 06 | L <sub>2</sub> | CO6 |
|     | d) Identify steps for path coverage testing with example.                                   | 06 | L <sub>3</sub> | CO6 |

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