



B.Tech - Odd Sem : End Semester Exam
Academic Year:2020-2021

19CS2211A - Software Engineering(Advanced)

Set No: 3

| Time: | | Max.Marks: 100 | | | | | |
|--------------|---|-----------------------|---------|---------|-----|--------|---------|
| S.NO | Answer All Questions | Choice | Options | Marks | CO | CO BTL | COI BTL |
| 1. | Discover the merits of using incremental model in Software Development Process | choice Q-2 | | 10Marks | CO1 | 2 | 1 |
| 2. | Outline the process adoptions are required if the prototype will evolve into a deliverable system? | | | 10Marks | CO1 | 2 | 2 |
| 3. | Answer 3 or 4 | choice Q-4 | | 15Marks | CO1 | 2 | 2 |
| 3.A. | Define Legacy Software and List out the reason for Legacy System to evolve and give two advantages. | | | 8Marks | CO1 | 2 | 2 |
| 3.B. | Explain the elements of software process and umbrella activities that occurred through out the software development | | | 7Marks | CO1 | 2 | 2 |
| 4. | Answer 3 or 4 | | | 15Marks | CO1 | 2 | 2 |
| 4.A. | Explain how evolutionary process models are used and write their cons and pros. | | | 8Marks | CO1 | 2 | 2 |
| 4.B. | Explain in detail about waterfall process model with a neat diagram | | | 7Marks | CO1 | 2 | 2 |
| 5. | Outline the principles of Agile Model in the process of software development | choice Q-6 | | 10Marks | CO2 | 3 | 2 |
| 6. | Define Requirements Engineering and list out the seven distinct task of Requirement Engineering. | | | 10Marks | CO2 | 3 | 3 |
| 7. | Answer 7 or 8 | choice Q-8 | | 15Marks | CO2 | 3 | 3 |
| 7.A. | Compare and Contrast "Functional and Non-Functional Requirements. | | | 8Marks | CO2 | 3 | 3 |
| 7.B. | Discuss the concept of Agile Manifesto in software and how it is useful | | | 7Marks | CO2 | 3 | 3 |
| 8. | Answer 7 or 8 | | | 15Marks | CO2 | 3 | 3 |
| 8.A. | List out the basic guidelines of Collaborative Requirements Gathering of Software Requirement Engineering | | | 8Marks | CO2 | 3 | 3 |
| 8.B. | Identify the Role of the use cases diagrams in creation of behavioral model with any case study | | | 7Marks | CO2 | 3 | 3 |
| 9. | For a context of developing ERP software for the University, explain in detail the various phases involved in software development if the team follows scrum methodology. | choice Q-10 | | 10Marks | CO3 | 4 | 2 |
| 10. | Draw the Lifecycle of Scrum software development methodology | | | 10Marks | CO3 | 4 | 3 |
| 11. | Answer 11 or 12 | choice Q-12 | | 15Marks | CO3 | 4 | 3 |

| | | | | | | | |
|-------|--|-------------|--|---------|-----|---|---|
| 11.A. | Outline the two agile process models like Feature Driven Development , Dynamic Systems Development Method models | | | 8Marks | CO3 | 4 | 3 |
| 11.B. | Develop a usecase and sequence diagram for return of a book in the library | | | 7Marks | CO3 | 4 | 4 |
| 12. | Answer 11 or 12 | | | 15Marks | CO3 | 4 | 3 |
| 12.A. | List out the steps that are needed for “creation” of a behavioral model. | | | 8Marks | CO3 | 4 | 4 |
| 12.B. | Analyze the core practices of Scaled Agile Framework which help in the development of university management application and Explain in detail | | | 7Marks | CO3 | 4 | 4 |
| 13. | List the testing principles that the software engineer must apply while performing the software testing | choice Q-14 | | 10Marks | CO4 | 4 | 2 |
| 14. | Explain in detail Architecture of JUnit with their components | | | 10Marks | CO4 | 4 | 3 |
| 15. | Answer 15 or 16 | choice Q-16 | | 15Marks | CO4 | 4 | 4 |
| 15.A. | For a context of developing LMS software for the University, identify various test strategies followed in a conventional software development methodology. | | | 8Marks | CO4 | 4 | 3 |
| 15.B. | Examine the various categories of Black-Box Testing with an example and discuss which among them is more crucial for the success of software development. | | | 7Marks | CO4 | 4 | 3 |
| 16. | Answer 15 or 16 | | | 15Marks | CO4 | 4 | 4 |
| 16.A. | Explain the concepts of Smoke Testing and Regression Testing in detail | | | 8Marks | CO4 | 4 | 4 |
| 16.B. | Examine the various categories of White Box Testing with an example and discuss which among the them is more crucial for the success of software development | | | 7Marks | CO4 | 4 | 3 |

[object HTMLDivElement]