C

Question Paper Code: 95202

B.E./B.Tech. DEGREE EXAMINATION, MAY 2024

Fifth Semester

Computer Science Engineering

19UCS502 - Software Engineering Practices

(Regulations 2019)

Duration: Three hours   Maximum: 100 Marks

Answer ALL Questions

PART A - (5 x 1 = 5 Marks)

1. The main activity of the design phase of the system life cycle is to?   CO1- U

    (a) Replace the old system with the new one   (b) Develop and test the new system

    (c) Understand the current system   (d) Propose alternatives to the current system

2. If a team can complete 10 story points In iteration then how long will it take   CO2- App
   for the team to complete 100 story points?

    (a) 10 Iterations   (b) 10 waves   (c) 20 Iterations   (d) 20 waves.

3. Who will test the system in agile development?   CO1- U

    (a) Software tester.   (b) Developer.   (c) Business Analyst.   (d) All the above.

4. Which among the following DevOps processes offers robust integration and   CO1- U
   automation?

    (a) Source code management   (b) Code review

    (c) Configuration management   (d) Build management

5. During Development, once a problem occurs, the reliability engineer   CO1- U
   performs_____

    (a) Short-term analysis to diagnose   (b) Mitigate

    (c) Repair the problem   (d) All of the above

PART – B (5 x 3= 15 Marks)

6. Write the IEEE definition of software engineering.   CO1- U

7. Who are the stakeholders of Scrum? Brief with example   CO1- U

8. Differentiate automation and testing.   CO1- U

9. What are the various phases of the DevOps lifecycle?   CO1- U

10. Name the three different types of pipelines in Jenkins?   CO1- U

PART – C (5 x 16= 80Marks)

11. (a) Explain in detail about the Agile software lifecycle model with an   CO1- U   (16)
        example

                                    Or

    (b) Differentiate the steps involved in the Evolutionary process models   CO1- U   (16)
        and Increment process models.

12. (a) Describe in detail about the planning and estimation of Project with CO1- U   (16)
        an example.

                                    Or

    (b) Elaborate the steps and processes involved in writing User Stories   CO1- U   (16)
        for the development of projects.

13. (a) Describe Test Driven Development in detail.   CO1- U   (16)

                                    Or

    (b) Discuss Single Responsibility Principle in detail with example.   CO1- U   (16)

14. (a) Explain in detail about the Devops maturity map and Maturity   CO1- U   (16)
        checklists.

                                    Or

    (b) Explain in detail about the steps involved in the Devops application CO1- U   (16)
        with an example

15. (a) Explain in details about the phases of a DevOps Pipeline?   CO1- U   (16)

                                    Or

    (b) Explain in any five DevOps Automation Testing Tools with suitable   CO1- U   (16)
        examples.