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**Question Paper Code: U4F06**

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

Fourth Semester

Computer Science and Design

21UCD406 AGILE METHODOLOGIES

(Regulations 2021)

Duration: Three hours

Maximum: 100 Marks

Answer All Questions

PART A - (10 x 2 = 20 Marks)

1. Illustrate the phases involved in spiral model. CO1-U
2. Write down the disadvantages of Incremental models. CO1-U
3. Describe the 3 roles in scrum methodology. CO1-U
4. What is a sprint? How will you execute the SCRUM sprint? CO1-U
5. Write the differences between Scrum and XP frameworks. CO1-U
6. What is refactoring? CO1-U
7. List out the core practices of Kanban methodology. CO1-U
8. What is the use of the Kanban board? CO1-U
9. Give an example to illustrate Interface Segregation Principle. CO1-U
10. Give the core classes in xUnit architecture. CO1-U

PART – B (5 x 16= 80 Marks)

11. (a) Explain in detail about the Spiral model with neat diagram. CO1-U (16)  
Or  
(b) Explain in detail the processes involved in requirements engineering in the software development process with neat diagrams CO1-U (16)

12. (a) Write notes on the following: CO1-U (16)  
Roles, Artifacts, and events in the Agile framework  
Or  
(b) Write notes on the 3-3-5 Scrum framework. CO1-U (16)
13. (a) Explain the planning and team practices of XP. CO1-U (16)  
Or  
(b) Write notes on the following: CO1-U (16)  
Code smells, Spaghetti code, Lasagna code, hooks, and edge cases
14. (a) Explain in detail the values of Lean methodology. CO1-U (16)  
Or  
(b) Explain how the cumulative flow diagram is used to calculate the average lead time in Kanban. CO1-U (16)
15. (a) Explain the Interface Segregation Principle with an example. CO1-U (16)  
Or  
(b) Explain the agile life cycle and impact on Testing. CO1-U (16)