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Question Paper Code: 59824

B.E. / B.Tech. DEGREE EXAMINATION, DEC 2021

Elective

Computer Science and Engineering

15UIT924 - AGILE SOFTWARE DEVELOPMENT

(Common to Information Technology)

(Regulation 2015)

Duration: Three hours

Maximum: 100 Marks

Answer ALL Questions

PART A - (5 x 1 = 5 Marks)

1. Fifteen minutes team meeting which is held on daily basis is called_____. CO1- R
(a) Backlog Meeting (b) Daily Scrum
(c) Review Meeting (d) Daily Meeting
2. Scrum was formalized over a decade ago by and it's now being used by companies large and small. CO2- R
(a) Ken Schwaber (b) Dr. Jeff Sutherland
(c) Ken Sutherland (d) Jeff Schwaber
3. _____ is an adaptable process framework, intended to be tailored by the development organizations that will select the elements of the process that are appropriate for their needs. CO3- R
(a) RUP (b) AOP (c) FDD (d) XP
4. Which of the following is Open-Closed principle? CO4- R
(a) Open to modification, Close to extension (b) Close to modification
(c) Open to extension, Close to modification (d) Open to modification

5. _____ combines procedures and tools to manage different versions of configuration objects that are created during the software process CO5- R
- (a) Configuration status reporting (b) Change control
(c) Version control (d) None of the above

PART – B (5 x 3= 15 Marks)

6. Give the features of Extreme Programming CO1- U
7. Illustrate the term” Sprint Retrospective” CO2- R
8. How do you plan and manage test cycle? CO3- R
9. Define Continuous Integration CO4- R
10. List the Challenges in Agile CO5- U

PART – C (5 x 16= 80 Marks)

11. (a) Discuss in detail the agile manifesto and its principles. CO1- U (16)
Or
(b) Explain Feature Driven Development in detail. CO1- U (16)
12. (a) Explain the following with a suitable example CO2-U (16)
(i) Product backlog
(ii) sprint backlog
Or
(b) Write User story for hospital management CO2-U (16)
13. (a) Discuss in detail about Agile software testing life cycle CO3-U (16)
Or
(b) How do you perform the testing activities for an agile project. CO3-U (16)
14. (a) Apply Interface Segregation Principle for designing ATM system. CO4- U (16)
Or
(b) What is the purpose of Refactoring? Consider a banking class where customer deposits and withdraws. Suppose we need to add a new class named loan. What is the problem that arrives? Explain this scenario with refactoring and without refactoring. CO4- U (16)
15. (a) Explain in detail about Tools and techniques in Agile CO5- U (16)
Or
(b) Explain in detail about distributed teams in agile CO5- U (16)