C   Reg. No. :

B.E. / B.Tech. DEGREE EXAMINATION, NOV 2019

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   CO1- R
   called_____.

    (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   CO2- R
   companies large and small.

    (a) Ken Schwaber   (b) Dr. Jeff Sutherland

    (c) Ken Sutherland   (d) Jeff Schwaber

3. _____ is an adaptable process framework, intended to be   CO3- R
   tailored by the development organizations that will select the
   elements of the process that are appropriate for their needs.

    (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   CO4- U   (16)
        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.

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)

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