Reg. No. :

Question Paper Code: 49804

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

Elective

Information Technology

14UIT904 AGILE SOFTWARE DEVELOPMENT

(Common to Computer Science and Engineering)

(Regulation 2014)

Duration: Three hours   Maximum: 100 Marks

PART A - (10 x 1 = 10 Marks)

(Answer all Questions)

1. In which year agile manifesto in introduced in the software development   CO1- R
    process

    (a) 2000   (b)2001   (c)2002   (d)2004

2. Find what is the unit of measurement that is used to measure the size of a user   CO1- R
    story for an Agile project

    (a) Line of Code points   (b) Story points

    (c) Work breakdown points   (d) Function Points

3. The planning poker estimation techniques allocates a card to the team   CO2- R
    member in the order of_____

    (a)Even series   (b)Fibonacci series   (c) Odd series   (d)Prime series

4. Who is responsible for prioritizing the product backlog   CO2- R

    (a) Tester   (b) Developer   (c) Product Manager   (d) Product Owner

5. Testing the software application when it undergoes a code change to   CO3- R
    ensure that the new code has not affected other parts of the software is
    called as_____

    (a) Re-testing   (b) Regression   (c) Risk based testing   (d) None of the above

6. Who will test the system in agile development? CO3- R

   (a) software tester   (b) Developer

   (c) Business Analyst   (d) All the above

7. Find which of the following is not part of the Manifesto for Agile   CO4- R
   Software Development

   (a) Working software over comprehensive documentation

   (b) Teams and interactions over processes and tools

   (c) Responding to change over following a plan

   (d) Customer collaboration over contract negotiation

8. The build automation process contains one of the following process   CO4- R

   (a) Interpretation   (b) Compilation

   (c) Code generation   (d) Translation

9. The team meets daily for _____minutes, where each member of the   CO5- R
   team discusses the work they've completed since the last meeting

   (a) 10   (b) 12   (c) 15   (d) 20

10. The size of the team members in the scrum is   CO5- R

    (a) 4-10   (b) 4-12   (c) 4-15   (d) 4-20

PART – B (5 x 2= 10Marks)

11. Name any four Basic Principles of Agile Project Management   CO1- R

12. Give an idea about planning game   CO2- R

13. List any four tools to support agile tester   CO3- R

14. Express the SOLID principles of Agile Software Design   CO4- R

15. Summarize the common challenges in adopting agile methods   CO5- Ana

PART – C (5 x 16= 80Marks)

16. (a) Explain the principles of lean software development with CO1- App (16)
    comparison of agile software development

    Or

    (b) (i) Define Lean software development and explain its principles. CO1- U (10)

    (ii) Discuss about User Story. CO1- U (6)

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17. (a) Develop the product backlog and Sprint backlog for Online CO2 -U (16)
Shopping website.

<div align="center">Or</div>

(b) Explain the process of scrum framework with the neat diagram CO2 -U (16)

18. (a) With the neat diagram discuss the test driven development CO3 -U (16)
process.

<div align="center">Or</div>

(b) (i) Explain in detail about Test Automation in Agile CO3- U (10)

(ii) Write Short Notes on Regression testing and Exploratory CO3- U (6)
Testing

19. (a) Summarize the liskov substitution principle in agile software CO4 -U (16)
design and development with suitable examples.

<div align="center">Or</div>

(b) Explain the required skill of the developer in the agile refactoring CO4- U (16)
process .

20. (a) Build the solutions based on Agile software engineering CO5- Ana (16)
methodologies for Health care system.

<div align="center">Or</div>

(b) Explain the James Martin Rapid application methods with CO5- App (16)
suitable examples.

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