

BACHELOR OF TECHNOLOGY (CBCS) (2020 COURSE)
B.Tech.Sem - VI Information Technology : WINTER : 2023
SUBJECT : AGILE METHODOLOGIES

Day : Wednesday

Time : 10:00 AM-01:00 PM

Date : 22-11-2023

W-24747-2023

Max. Marks : 60

N.B.

- 1) All questions are **COMPULSORY**.
- 2) Figures to the **RIGHT** indicate **FULL** marks.
- 3) Assume suitable data **WHEREVER** necessary.
- 4) Draw neat labeled diagrams **WHEREVER** necessary.

- Q.1** What are the drivers of Agile project management? Discuss in detail components of agility? [10]
- OR**
- Q.1** Discuss the important purpose and benefits of documentation in agile? What are the different types of agile documents? [10]
- Q.2** What are the stages of requirements management? How are requirements handled in Agile? [10]
- OR**
- Q.2** What is the elicitation technique in Agile? How do you conduct requirements elicitation? [10]
- Q.3** Discuss with neat diagram scrum framework of Agile. [10]
- OR**
- Q.3** Explain various roles in scrum process. How are these roles different from traditional roles? [10]
- Q.4** What is burn-down chart in Agile project management, and how is it used to track progress? Explain the purpose and benefits of using a burn-down chart, how it is created and updated, and how it provides insights into the progress and velocity of a development team over time. [10]
- OR**
- Q.4** How can timeboxing be effectively implemented in Agile projects? Discuss the key principles and guidelines for setting timeboxes helps team to manage uncertainty, reduce waste and improve accountability in Agile development. [10]
- Q.5** What are the challenges and benefits of applying Extreme Programming (XP) in a software development project? Discuss how XP practices such as short iterations, frequent customer collaboration, and continuous feedback, can help improve the quality, productivity and responsiveness of a software development team. [10]
- OR**
- Q.5** What is refactoring in software development, and why is it considered an important practice? Explain the benefits and objectives of refactoring, and provide examples of common refactoring techniques? [10]
- Q.6** How does the Agile software development lifecycle affect the role of testing in the development process? Describe the key testing activities that take place during different stages of the Agile lifecycle. [10]
- OR**
- Q.6** What are the benefits and challenges of adopting Test-Driven Development (TDD) in a software development project? How can these challenges be mitigated to ensure successful implementation of TDD? [10]