

Exam. Code: 1006
Sub. Code: 35088

2055
M.E. (Information Technology)
Second Semester
MEIT-2211: Agile Software Development

Time allowed: 3 Hours

Max. Marks: 50

NOTE: Attempt five questions in all, including Question No. I which is compulsory and selecting two questions from each Part.

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I	a) What is the significance of continuous integration in agile development? Discuss in brief. (02) b) List any two characteristics of a good User Story. (02) c) What is exploratory testing in Agile? Discuss in brief. (02) d) Why is version control important in Agile software development? Discuss in brief. (02) e) What is Agile ALM? Discuss in brief. (02)	
PART A		
II	a) Explain the principles of Lean Software Development. How do they support Agile values? Discuss. (05) b) Discuss the concept of Project Velocity and Burndown Charts. How are they used to monitor progress in Scrum projects? (05)	
III	a) Explain the concept of Extreme Programming (XP). Discuss its key characteristics, advantages in Agile software development and the challenges commonly faced during its implementation. (05) b) Explain the impact of Agile lifecycle on testing. How does Agile testing differ from traditional testing approaches? (05)	
IV	a) Describe the role of the Scrum Master. How does it differ from that of the Product Owner? Discuss. (05) b) What is the xUnit framework? How does it support TDD in Agile development? Discuss. (05)	
PART B		
V	a) What is Liskov Substitution Principle? Discuss. (05) b) Discuss the current market scenario for Agile adoption across industries. What factors influence Agile development? (05)	
VI	a) What is Open Closed Principle? Discuss. (05) b) What are the key challenges of implementing Agile in distributed team? How can they be mitigated? Discuss. (05)	
VII	a) What is the significance of Refactoring in Agile projects. Discuss any two refactoring techniques. (05) b) How organizations can balance the flexibility of Agile with the discipline required for large-scale projects? Discuss. (05)	

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