2123
# M. E. (Information Technology)
## Third Semester
### MEIT-3101: 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 Section.*

x-x-x

| | | |
|---|---|---|
| I | a) Briefly discuss the concept of Refactoring in Agile development. | (02) |
| | b) What do you understand by project velocity in Agile? Discuss in brief. | (02) |
| | c) What are the benefits of using TDD? Discuss in brief. | (02) |
| | d) What is the significance of continuous integration? Discuss in brief. | (02) |
| | e) Briefly discuss the challenges and obstacles to Agile adoption. | (02) |
| | **SECTION A** | |
| II | a) Elaborate on the genesis of Agile and discuss how it emerged as a response to traditional project management methodologies? | (05) |
| | b) What is the significance of exploratory testing in Agile methodologies? What are the benefits and drawbacks of exploratory testing? Discus in brief. | (05) |
| III | a) How do design and development practices in Agile projects differ from traditional approaches? What advantages do they bring to the development process? Discuss. | (05) |
| | b) How does the xUnit framework function in the context of Test-Driven Development? Discuss. | (05) |
| IV | Write notes on the following: | |
| | a) Tools for Agile Project Management | (05) |
| | b) Scrum Framework | (05) |
| | **SECTION B** | |
| V | a) What are the commonly employed techniques for refactoring? Discuss. | (05) |
| | b) What do you understand by Open Closed Principle? Discuss. | (05) |
| VI | a) What are the risks associated with Agile implementation? How can organizations mitigate these risks to ensure the smooth execution of Agile projects? Discuss. | (05) |
| | b) What do you understand by Dependency-Inversion Principle? Discuss. | (05) |
| VII | Write notes on the following: | |
| | a) Version Control | (05) |
| | b) Agile ALM | (05) |

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