

2125
B.E. (Information Technology)
Seventh Semester
PEIT 701(d): Agile Software Development

Time allowed: 3 Hours

Max. Marks: 50

NOTE: Attempt five questions in all, including Question No. 1 which is compulsory and selecting two questions from each Section.

x-x-x

- 1 a) Define Sprint Goal. 10
b) What is refactoring?
c) Expand LSP.
d) What is an Increment?
e) Who is responsible for removing impediments in Scrum?
f) What is Risk-Based Testing?
g) Define Continuous Integration (CI).
h) What is a Test Charter?
i) Mention characteristics of a good User Story.
j) Name any one tool used for Continuous Integration.

SECTION - A

- 2 a) Explain Agile Software Development Life Cycle in detail. 6
b) Write any four differences between Agile and Waterfall. 4
- 3 a) Discuss software rotting and its impact on software quality. 5
b) Explain SRP, DIP, and ISP principles with suitable examples. 5
- 4 a) Explain Scrum Events: Sprint, Daily Scrum, and Sprint Review. 6
b) Write a note on Scrum Artifacts with diagrams (Product Backlog, Increment). 4

SECTION - B

- 5 a) Explain Enterprise Agile Frameworks. Describe any two frameworks. 6
b) What is governance in Agile projects? Why is it necessary? 4
- 6 a) Describe the challenges faced by Agile Testers in an organization. 5
b) Explain the Agile Testing Quadrants with suitable examples. 5
- 7 a) What is Exploratory Testing? Explain its process with an example. 5
b) Differentiate between Unit Testing, System Testing, and Acceptance Testing in Agile. 5

x-x-x