Exam. Code: 0925
Sub. Code: 33602

2076

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 Unit.

x-x-x

I. Explain the following terms:-

(a) Agile framework

(b) Metaphor

(c) Pair programming

(d) Product backlog

(e) Scrum Backlog (5x2)

UNIT - I

II. A startup building a digital health platform expects continuous requirement changes from doctors and patients. Explain how the Agile SDLC supports collaboration in this scenario. (10)

III. Describe the role of SOLID principles in agile design. Explain any two principles with the help of suitable example. (10)

IV. What is Scrum? Explain the Scrum Framework, describing roles, events, and artifacts. (10)

UNIT - II

V. Explain the roles and responsibilities of an Agile Tester. Explain the organizational challenges faced by Agile testing teams. (10)

VI. a) A team implementing TDD realizes that writing tests first slows down their initial development speed. Using this case, explain the short-term drawbacks and long-term benefits of TDD.

b) Compare various agile enterprise frameworks. (5,5)

VII. Discuss the concept of scaling agile projects. Explain governance mechanisms used in large-scale agile project environments. (10)

x-x-x