B.Tech. (Computer Science & Engg.)   (Sem.–7)

AGILE SOFTWARE DEVELOPMENT

Subject Code : BTCS-710-18
M.Code : 90501
Date of Examination : 16-12-22

Time : 3 Hrs.   Max. Marks : 60

INSTRUCTIONS TO CANDIDATES :

1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
2. SECTION-B contains FIVE questions carrying FIVE marks each and students have to attempt any FOUR questions.
3. SECTION-C contains THREE questions carrying TEN marks each and students have to attempt any TWO questions.

SECTION-A

1. Write briefly :

    a) Differences between Software, Hardware and Firmware.

    b) Scrum framework.

    c) Risk based testing.

    d) Code refactoring

    e) Continuous-integration.

    f) Interface segregation.

    g) Regression tests.

    h) Various Optimisation measures used in agile software development.

    i) What do you mean by the concept of the value framework in agile software development?

    j) Open closed principle.

SECTION-B

2. What do you mean by agile methodology? Explain it with the help of Extreme Programming.

3. List down the various benefits of agile in software development in detail.

4. Elaborate the role of product owner, team members and scrum master in Scrum framework.

5. Explain how Waterfall model is the basic model for software development.

6. Elaborate the concept of Liskov-substitution Principle in agile testing along with a suitable example.

SECTION-C

7. List down the differences between :

   a) White box Testing and Black box Testing.

   b) Unit Testing and Functional Testing.

8. List down the brief steps that are to be followed to design an Agile software.

9. What do mean by Kanban framework? Explain its workflow in detail along with its merits and demerits?