S.Y.B.Sc. (Computer Science)
Semester IV Examination
USCS-242 Software Engineering

Time: 2:00 Hours]   [Marks: 35

Instructions to candidate:
1. All questions are compulsory.
2. Draw neat labeled diagrams wherever necessary
3. Figure to the right indicate full marks

Q.1   Solve any **FIVE** of the following   [5]

    a) Define: Software Engineering.

    b) What is agility?

    c) Define: prototyping.

    d) What is meant by XP?

    e) What is meant by ASD?

    f) What is requirement validation?

Q.2A]   Answer any **TWO** of the following.   [6]

    a) Define terms: i) Agile Method   ii) Agile Process

    b) What are the advantages of scrum?

    c) Explain the purpose of Use case diagram with example.

B]   Answer any **TWO** of the following.   [4]

    a) Explain in brief waterfall model with diagram.

    b) List the activities of spiral model in detail.

    c) List the elements of Analysis model.

Q.3A]   Answer any **TWO** of the following.   [6]

    a) Explain a software process framework in detail.

    b) Explain any four symbols used for use case diagram.

    c) State the disadvantages of Incremental model.

B]   Answer any **TWO** of the following.   [4]

    a) Explain different approaches for requirements elicitation.

    b) Write classification of UML diagrams.

c) Draw the symbols for the following:

    i) Active class   ii) Component

    iii) Artifact   iv) Node

Q.4   Answer any **TWO** of the following.   **[10]**

    a) Explain any four symbols of class diagram with example.

    b) Draw UML class diagram for railway reservation system.

    c) What is the importance of design model?

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