

Goa Vidyaprasarak Mandal's
Gopal Govind Poy Raiturcar College of Commerce and Economics
Ponda-Goa

B.C.A. (Semester - IV) Examination, April 2017
SOFTWARE ENGINEERING

Duration : 2 hours

Marks : 50

Instructions : A.) *All the questions are compulsory.*

B.) *Draw neat diagrams with pencil wherever required.*

- I. 1. State whether the following statements are True or False. (1 mk x 5 = 5 mks)
- The foundation for Software Engineering is the process layer.
 - Using the Spiral Model, software is developed in a series of evolutionary releases.
 - A variation in the representation of the Waterfall Model is not called the V-model.
 - Software Engineering is not a layered technology.
 - Software role is both a product and a vehicle for delivering a product.
2. Answer the following. (1 mk x 5 = 5 mks)
- What is Software Engineering ?
 - What is the use of User Requirements ?
 - What is Software Quality ?
 - What are Domain Requirements ?
 - What are Requirements Validation ?
- II. 1. Explain the Introduction to UML. (2 mks)
2. Explain the importance of Feasibility Study. (3 mks)
3. Explain the Unified Process with the diagram. (5 mks)
- III. 1. Explain the State Chart Diagram. (2 mks)
2. Explain the techniques used in Requirements Elicitation. (3 mks)
3. Draw the Class Diagram for Airline Reservation System. (5 mks)
- IV. 1. Explain the Sequence Diagram. (2 mks)
2. Explain Software Project Scheduling using Gantt Chart. (3 mks)
3. Draw the Activity Diagram for Hospital Management System. (5 mks)
- V. 1. Explain the problems with Requirements using Natural Language. (2 mks)
2. Explain the Format of SRS for a Software System. (3 mks)
3. Explain the Use Case Diagram for Employee Management System. (5 mks)
