

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

B.C.A. (Semester - IV) Examination – April 2016

**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. (1mk x 5 = 5 mks)
- Using Spiral Model, software is developed in a series of evolutionary releases.
  - A Prototyping iteration is planned quickly and modeling occurs.
  - Software role is both a product and a vehicle for delivering a product.
  - Software engineering methods does not provide the technical how-to's for building software.
  - Process is not one of the software engineering layers.
2. Answer the following. (1mk x 5 = 5 mks)
- What is Project scheduling ?
  - What is Natural Language ?
  - What is Timeline Chart ?
  - What is the use of System Requirements ?
  - What is the use of Gantt chart ?
- II. 1. Explain the Domain Requirements. (2 mks)
2. Explain the characteristics of Software Requirements Specification. (3 mks)
3. Draw the Class Diagram for Library Management System. (5 mks)

- III. 1. Explain the Requirements Analysis and Negotiation. (2 mks)  
2. Explain the various types of Feasibility Study. (3 mks)  
3. Draw the Use Case diagram for Railway Reservation System. (5 mks)
- IV. 1. Explain the introduction of Requirements Engineering Process. (2 mks)  
2. Explain the Sequence Diagram with an example. (3 mks)  
3. Draw the Activity Diagram for Social Media - Facebook. (5 mks)
- V. 1. Explain the various attributes related to Software Quality. (2 mks)  
2. Explain the State Chart Diagram with an example. (3 mks)  
3. Explain the Waterfall Model with the diagram. (5 mks)

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