

Goa Vidyaprasarak Mandal's
GOPAL GOVIND POY RAITURCAR COLLEGE OF COMMERCE AND ECONOMICS,
PONDA-GOA

B.C.A (SEMESTER-IV) EXAMINATION, MARCH/APRIL 2014

SOFTWARE ENGINEERING

Duration: 2 Hours

Marks: 50

- Instructions:** 1) Figures to the right indicate full marks.
2) All Questions are compulsory.
3) Write proper assumption for UML diagrams.
4) Draw proper and neat UML Diagram wherever necessary.

Q1 A. Select the appropriate answer from following and rewrite the statement. (1x5)

i) Which of the following models follow a purity sequential approach?

- a. Waterfall model
- b. Spiral model
- c. Agile Methodology
- d. Iterative development

ii) Software Engineering:

- (a) Is a set of rules about developing software products?
- (b) Has been around as a discipline since the early 50's?
- (c) Started as a response to the so-called 'Software Crisis' of the late 90's
- (d) Is an engineering discipline concerned with all the aspects of software production?
- (e) Is now a mature discipline on par with other established engineering fields?

iii) What are the major activities of the spiral model of software engineering?

- (a) Planning, Risk Analysis, Engineering, Customer Evaluation
- (b) Defining, Prototyping, Testing, Delivery
- (c) Requirements
- (d) Quick Design, Build Prototype, Evaluate Prototype, Refine Prototype
- (e) Testing.

iv) Which UML diagram is static in nature?

- a) Class
- b) Sequence
- c) Activity
- d) Usecase

- (v) What are the most useful UML diagrams and related information that can be used to represent a WebApp interaction model?
- a) Activity diagrams, class diagrams, state diagrams, interface prototype
 - b) Activity diagrams, collaboration diagrams, sequence diagrams, state diagrams.
 - c) Use-cases, sequence diagrams, state diagrams, interface prototype
 - d) Use-cases, sequence diagrams, state diagrams, sequence diagrams.

Q1 B. Answer the following: (1x5)

- 1. Define Software Engineering.
- 2. Difference between Join and Fork.
- 3. Difference between extend and Include.
- 4. Define Class.
- 5. Spiral Model is combination of _____

Q2A. Write down the SRS format. (2)

Q2B. Write down the motivation and limitations of Software Engineering. (3)

Q2C. Draw Class Diagram for ANY Social networking website wherein user upload photo, share messages , tag videos, play games, chat with friends (5)

Q3A. Explain Feasibility study? (2)

Q3B. Explain Agile Methodology? (3)

Q3C. Draw Activity Diagram for Cable Television System (BILLING SYSTEM). (5)

Q4A. Explain Aggregation and Composition. (2)

Q4B. With the help of activity diagram draw sequence diagram for ATM (any one module). (3)

Q4C Draw use case diagram for Library management System. (5)

Q5A. Explain Deployment Diagram. (2)

Q5B. Explain State Chart diagram. (3)

Q5C. Draw Sequence Diagram and Collaboration Diagram for Movie Booking System. (5)

*****ALL THE BEST *****