

## BSc Sem 5 Examination

CC - 301

Computer Science

May 2022

Time : 2-00 Hours]

[Max. Marks : 50

**Instructions:**All Questions in Section – I Carry Equal Marks.

Attempt any **Three** Question in **Section – I**.

Question I in **Section – II** is **COMPULSORY**.

## SECTION - i

- |         |   |        |
|---------|---|--------|
| Q- I    | A: what are the fundamental activities of software process?<br>B: What are the activities of software project management?   | 7<br>7 |
| Q- II   | A: Explain Requirement analysis phase of Waterfall model?<br>B : Explain various stages of waterfall model with neat diagram.   | 7<br>7 |
| Q- III  | A: What are the different types of requirements? Explain in detail.<br>B : Explain Software characteristics?  | 7<br>7 |
| Q- IV   | A: Discuss about level of testing?<br>B: Differentiate between integration and system testing with example.   | 7<br>7 |
| Q- V    | A: Differentiate between organizational level and project level quality management?<br>B: what do you understand by top-down decomposition in the context of structured analysis? Explain your answer using a suitable example. | 7<br>7 |
| Q- VI   | A: What is use case Model? Draw use case diagram for Supermarket Prize Scheme.<br>B : Explain dataflow based testing in white box testing.  | 7<br>7 |
| Q- VII  | A: Explain the shortcoming of DFD model.<br>B: Draw UML activity diagram that shows a workflow for a project planning process.  | 7<br>7 |
| Q- VIII | A: Define cohesion? Explain about different types of cohesion.<br>B : What are the tasks performed in Coding phase?   | 7<br>7 |

## SECTION - ii

- |       |  |   |
|-------|--|---|
| Q- IX | 1) What is the first step in the software development lifecycle?<br>a. System Design<br>b. Coding<br>c. System Testing | 8 |
|-------|--|---|

P.T.O

E197-2

Seat No. \_\_\_\_\_

GUJARAT UNIVERSITY

November- 2021

B.Sc. Computer Science Semester – V  
PAPER – COM-301(Software Engineering - I)

- d. Preliminary Investigation and Analysis
- 2) What does the study of an existing system refer to?
- a. Details of DFD
  - b. Feasibility Study
  - c. System Analysis
  - d. System Planning
- 3) Which of the following is involved in the system planning and designing phase of the Software Development Life Cycle (SDLC)?
- a. Sizing
  - b. Parallel run
  - c. Specification freeze
  - d. All of the above
- 4) What does RAD stand for?
- a. Rapid Application Document
  - b. Rapid Application Development
  - c. Relative Application Development
  - d. None of the above
- 5) Model selection is based on \_\_\_\_\_.
- a. Requirements
  - b. Development team & users
  - c. Project type & associated risk
  - d. All of the above
- 6) Which of the following models doesn't necessitate defining requirements at the earliest in the lifecycle?
- a. RAD & Waterfall
  - b. Prototyping & Waterfall
  - c. Spiral & Prototyping
  - d. Spiral & RAD
- 7) When the user participation isn't involved, which of the following models will not result in the desired output?
- a. Prototyping & Waterfall

E1973

Seat No. \_\_\_\_\_

GUJARAT UNIVERSITY

November- 2021

B.Sc. Computer Science Semester – V  
PAPER – COM-301(Software Engineering - I)

- b. Prototyping & RAD
- c. Prototyping & Spiral
- d. RAD & Spiral

8) Which of the following model will be preferred by a company that is planning to deploy an advanced version of the existing software in the market?

- a. Spiral
- b. Iterative Enhancement
- c. RAD
- d. Both (b) and (c)

← X →