

**UTTARANCHAL UNIVERSITY, DEHRADUN**  
**UTTARANCHAL SCHOOL OF COMPUTING SCIENCES**  
**MID TERM EXAMINATION**  
**ODD SEMESTER 2023-24**  
BCA | 1<sup>st</sup> Semester  
**SOFTWARE ENGINEERING | BCA-C104**

Time: 1:15 Hour

Max. Marks: 30

Note: All questions are compulsory.

**Q.1- Answer the following questions. (1 x 6 = 6 Marks)**

**Multiple Choice Questions**

- a) Software is (CO-3, BL-1)
  - a. Superset of Programs
  - b. Subset of Programs
  - c. Set of Programs
  - d. None of these
- b) Which one is not type of Requirements? (CO-3, BL-1)
  - a. Known Requirements
  - b. Unknown Requirements
  - c. Undreamt Requirements
  - d. Complex Requirement
- c) Project risk factor is Considered in (CO-3, BL-2)
  - a. Waterfall Model
  - b. Spiral Model
  - c. Prototype Model
  - d. Iterative Enhancement Model

**State True/ False**

- d) Developers and customers create use-cases to help the software team understand how different classes of end-users will use functions. (CO-5, BL-3)
- e) In agile process models the only deliverable work product is the working program. (CO-2, BL-1)
- f) Requirements engineering is a generic process that does not vary from one software project to another. (CO-4, BL-5)

**Q.2-Write short note on any two (up to 70 words) (2 x 3 = 6 Marks)**

- a) What are the characteristics of Software? (CO-2, BL-2)
- b) What are functional and Non Functional Software System Requirements? (CO-03, BL-2)
- c) Difference between Data Flow Diagram and Flowchart? (CO- 2, BL-2)

**Q.3-Attempt any one of the following** **(1 x 6 = 6 Marks)**

- a) Explain the Phases of SDLC with the help of Diagram? (CO-2,BL-3)  
OR  
b) Explain with a Diagram the Spiral life Cycle model? (CO-3,BL-2)

**Q.4- Attempt any one of the following. (1 x 6 = 6 Marks)**

- a) Draw the use case Diagram of Airlines Reservation System?  
(CO- 4, BL-2)

**OR**

- b) Explain the Role of Management in Software Development Life Cycle? (CO-3, BL-2)

**Q.5- Attempt any one of the following. (1 x 6 = 6 Marks)**

- a) Explain Agile Methodologies and its Methods? (CO- 4, BL-4)

OR

- b) Draw the Entity Relationship Diagram of College Management System? (CO -3 , BL-3)