

UTTARANCHAL UNIVERSITY, DEHRADUN
UTTARANCHAL SCHOOL OF COMPUTING SCIENCES
MID TERM EXAMINATION
ODD SEMESTER 2023-24

BCA | 1st 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)