2111000103020002
Second Year B.C.A. (Semester –III)
Examination March-2023
Software Engineering

Seat No:

Student's Signature

[Time: Three Hours]   [Max. Marks:70]

Q.1   Answer in short.   **14**
1. What is Software Engineering?
2. Define control coupling?
3. What is effort distribution?
4. Define fan-in and fan-out.
5. What is functional independence?
6. What is Horizontal Partitioning?
7. What is backward traceability?

Q.2   Answer the following questions.
(a) Explain different types of software.   **7**
OR
(a) Define software process model. Compare and contrast Waterfall and prototype model.   **7**

(b) Discuss software characteristics with diagram   **7**
OR
(b) Explain Spiral model with figure.   **7**

Q.3   Answer the following:
(a) Explain testing principles.   **7**
OR
(a) Explain different types of black box testing techniques.   **7**

(b) Explain the components of SRS.   **7**
OR
(b) Explain Use Case diagram with example.   **7**

Q.4   Answer any two: **14**
1. Explain Modularity in detail.
2. Explain design heuristics.
3. Explain different types of cohesion.

Q.5   (a) Draw a DFD for Online Shopping System.   **10**
OR
(a) Draw a DFD for Inventory management System.   **10**
(b) Write Data Dictionary for above DFD.   **2**
(c) Write Process Specification for above DFD.   **2**

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