

Roll No.

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Total No. of Pages : 02

Total No. of Questions : 07

BCA (Sem-4)
SOFTWARE ENGINEERING

Subject Code : UGCA1921

M.Code : 79725

Date of Examination : 06-05-2025

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTIONS TO CANDIDATES :

1. **SECTION-A is COMPULSORY** consisting of **TEN** questions carrying **TWO** marks each.
2. **SECTION-B** contains **SIX** questions carrying **TEN** marks each and students have to attempt any **FOUR** questions.

SECTION-A

1. Write briefly :

- a) Define Software Engineering and explain its need.
- b) What are Specialized Process Models? Give an example.
- c) Explain the role of a system analyst.
- d) What are functional and non-functional requirements?
- e) Define cohesion and coupling in software design.
- f) What are the characteristics of a good software design?
- g) Differentiate between unit testing and integration testing.
- h) What is Software Reengineering?
- i) Explain in brief about Software Measurement.
- j) Define a decision tree and a decision table.

SECTION-B

2. Write a detailed note on Spiral model along with its advantages and disadvantages.
3. Discuss Software Requirement Specification (SRS) and its essential properties.
4. Explain structured analysis and function-oriented design in detail.
5. What are software testing fundamentals? Explain system testing in detail.
6. Explain in detail about Metrics for Testing and Metrics for Maintenance.
7. Write a detailed note on Software Cost Estimation.

NOTE : Disclosure of Identity by writing Mobile No. or Marking of passing request on any paper of Answer Sheet will lead to UMC against the Student.