



RAN-2011000305020081

T.Y.B.Sc. Computer Science (Sem. - V) Examination October - 2025

Software Engineering (Paper - 501)

Time: 2 Hours]
[Total Marks: 50
સૂચના : / Instructions

- (1) ઉપરોક્ત દર્શાવેલ વિગતો ઉત્તરવહી પર અવશ્ય લખવી.
Fill up strictly the above details on your answer book
- (2) Answer all the questions.
- (3) Figures in the right indicates full marks
- (4) Illustrate your answer with necessary example, if required.

Seat No.:

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Student's Signature

Q. 1 Answer the following questions. (Any Seven)
[14]

1. What is Software Requirement specification?
2. What is system analysis?
3. What is system prototype?
4. What is “hash total”?
5. What is physical design?
6. Explain data modelling.
7. Explain error, fault, failure.
8. Define data flow diagram.

Q. 2 Answer the following questions. [Any Three]
[12]

1. Discuss on various information gathering techniques.
2. What is system development life cycle? Briefly describe the activities it includes.
3. Explain spiral model in detail..
4. Write on Feasibility study.

Q. 3 Answer the following questions. [Any Three]
[12]

1. Explain Database Design in detail.
2. Coupling and cohesion are two important criteria for designing an information system. Explain.
3. Explain Data Dictionary. Why is it useful in the process of Software development?
4. What is testing? Why it is needed? Give its type.

Q. 4 Answer the following questions. [Any Two]
[12]

1. Need of documentation in system analysis and design. Discuss.
2. What are the Coding rules and guidelines for Programming practices?
3. Write on principles of output design.