



# RAN-2511001105040001

## B.Sc. (IT) NEP (Sem. - V) Examination February - 2026

### Software Engineering Minor - 2 (Paper : 504)

[ Total Marks: 50 ]

#### સૂચના : / Instructions

- (1) ઉપરોક્ત દર્શાવેલ વિગતો ઉત્તરવહી પર અવશ્ય લખવી.  
Fill up strictly the above details on your answer book

Seat No.:

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Student's Signature

#### Q. 1 [A] Define the following terms [Any Five]

[05]

- (1) QFD
- (2) Non-Functional requirements
- (3) Acceptance Testing
- (4) Alpha Testing
- (5) Multiplicity in class diagram
- (6) Data Abstraction

#### Q. 1 [B] Answer following questions in short [Any Five]

[05]

- (1) Why software doesn't ware out?
- (2) What is this myth? "-Its in the software so we can easily change it".
- (3) Why do we need software engineering?
- (4) What are CASE tools?
- (5) What is a test case?
- (6) What is a Extreme Programming?

#### Q. 2 [A] Answer the following questions in detail [Any Two]

[10]

- (1) Explain the incremental process model with proper diagram.
- (2) Explain SE umbrella activities in detail.
- (3) What is a class diagram? Draw a class diagram for train ticket booking system.

#### Q. 2 [B] Answer the following questions in brief [Any Two]

[06]

- (1) Differentiate between functional and non-functional requirements.
- (2) Draw a use case diagram for payment process of flight ticket booking system.
- (3) Explain incremental integration testing.

#### Q. 3 [A] Answer the following questions in detail [Any Two]

[10]

- (1) What is requirement elicitation? Explain different dictation techniques
- (2) What is the SRS? How to create the SRS?
- (3) Explain 12 principles of agile manifesto in detail.

- Q. 3 [B] Answer the following questions in brief [Any Two] [06]**
- (1) What is software design? What are the main concepts of software design?
  - (2) When to use Scrum model?
  - (3) What is a product backlog?
- Q. 4 [A] Explain different principles of testing in detail. [05]**
- OR**
- Q. 4 [A] Write a note on Data Dictionary.**
- Q. 4 [B] What is the difference between verification and validation? [03]**
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