

RAN-2511001004044001

S.Y.B.Sc. (Computer Science)(NCF-NEP) (Sem. IV) Examination April - 2026
CS-402-MN-Software Engineering

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.

Seat No.:

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Student's Signature

Q. 1 (A) Attempt the following.**(05)**

- What is a Functional Requirement?
 - specifies the tasks the program must complete
 - specifies the tasks the program should not complete
 - specifies the tasks the program must not work
 - All of the mentioned
- What does the RAD software process stand for?
 - Rapid Application Development
 - Recent Application Development
 - Rapid Application Design
 - Relative Application Development
- Which of these software engineering activities are not a part of software processes?
 - Software dependence
 - Software development
 - Software validation
 - Software specification
- What is a bug in software testing?
 - A testing method
 - A feature of the software
 - A malfunction or fault in the software
 - A software update
- Software development team has no permanent leader.
 - Controlled Centralized (CC)
 - Controlled decentralized (CD)
 - Democratic decentralized (DD)
 - None of the mentioned

(B) Answer the following in short. (Any Four)**(08)**

- Define Software Engineering.
- List out different Requirement Elicitation Techniques.
- Is debugging different from testing? Justify your answer.
- Define adaptive maintenance.
- What is data dictionary?

Q. 2 Answer the following questions. (08)

- A. Write a note on iterative incremental model with its advantages and disadvantages. When it is preferred to use incremental model? Explain in detail.

OR

- A. What is JAD? Explain different phases of JAD in detail. List out benefits of using JAD.
- B. What is software maintenance? Explain various types of S/W maintenance.

Q. 3 Answer the following questions. (Any Two) (12)

- A. Explain software quality factors in detail.
- B. Define System Analyst. Discuss various roles & responsibilities of System Analyst.
- C. Write a note on UX design with its principles.

Q. 4 Answer the following questions. (Any Two) (12)

- A. Discuss levels of Testing in detail.
- B. What is coupling? Explain different types of coupling.
- C. Explain black box testing with its advantages.
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