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BCA/5th Sem/25(NEP)

2025

5th Semester Examination (CCFUP : NEP)

BCA

Paper : MJ 10-T (Single Core Major)

(Software Engineering)

Full Marks : 40

Time : Two Hours

*The figures in the margin indicate full marks.  
Candidates are required to give their answers  
in their own words as far as practicable.*

**Group - A**

Answer any *five* questions : 2×5=10

1. State any two software myths.
2. What is cohesion?
3. What is DFD (Data Flow Diagram)?
4. Define Clean Room Testing.
5. What is Software Reliability?
6. Define COCOMO model.
7. What do you understand by reverse engineering?
8. What is meant by Software Maintenance?

P.T.O.



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**Group - B**

Answer any *four* questions : 5×4=20

- 9. Define Software Engineering. Explain why it is considered a layered technology. 2+3
- 10. Compare between functional and object-oriented design approaches.
- 11. Differentiate between white-box testing and black-box testing techniques.
- 12. What is Code Walkthrough? How is it different from Code Inspection? 2+3
- 13. Define Software Quality Assurance. Explain Formal Technical Review (FTR). 2+3
- 14. Write short notes on : 2½×2
  - (a) Decision Tree
  - (b) Decision Table

**Group - C**

Answer any *one* question : 10×1=10

- 15. What are Software Process Models? Explain Waterfall and Spiral models with advantages and disadvantages. 3+7

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- 16. (a) Explain Software Testing Fundamentals and Basis Path Testing.

- (b) Discuss Software Reliability and ISO standards in Software Quality Assurance. 6+4

