

BCA-08

December - Examination 2025
BCA (2nd Year) Examination
SOFTWARE ENGINEERING
Paper : BCA-08

[Time: 3 Hours]

[Maximum Marks: 70]

Note :- The question paper is divided into three Sections A, B and C. Write answers as per the given instructions.

Section-A

7×2=14

(Very Short Answer Type Questions)

Note :- Answer **all** questions. As per the nature of the question delimit your answer in one word, one sentence or maximum up to **30** words. Each question carries **2** marks.

1. (i) What is Unit Testing? Give an example.
- (ii) What is a 'CASE' tool?
- (iii) What is a software crisis?
- (iv) List various characteristics of a software.
- (v) Give the full form of SDLC.
- (vi) What is a data dictionary?
- (vii) What do you understand by prototyping?

Section-B

4×7=28

(Short Answer Type Questions)

Note :- Answer **any four** questions. Each answer should not exceed **200** words. Each question carries **7** marks.

2. What is the spiral model? Give the merits and demerits of this model.
3. What is SRS? Discuss the characteristics of a good SRS document.
4. Briefly explain the uses of UML (Unified Modelling Language).
5. How is software project planning done? Explain with suitable examples.
6. What are software process models? Explain various software process modes with their merits and demerits.
7. Write a short note on the use interface design process.
8. Why Re-Engineering is required? Explain.
9. What is the need for software measurement? Discuss various types of software measurement with examples.

Section-C

2×14=28

(Long Answer Type Questions)

Note :- Answer **any two** questions. You have to delimit your each answer maximum up to **500** words. Each question carries **14** marks.

10. What do you mean by software reuse? List the various levels of software used. Explain with suitable examples.
 11. What is the use of DFD? Discuss the various symbols used in DFD with suitable examples.
 12. What are the levels of testing? Explain black box and white box testing with a suitable example.
 13. What is the Capability Maturity Model? Explain its structure and levels in brief.
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