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(20524)

B.C.A.-IV Sem

(Printed Pages 4)

Roll No.

18018

B.C.A. Examination, May-2024

SOFTWARE ENGINEERING

(BCA-403)

Time : 3:00 Hours /

[Maximum Marks : 75

Note : Attempt all the sections as per instructions.

Section-A

(Very Short Answer Type Questions)

Note : Attempt all the five questions. Each question carries 3 marks. Very short answer is required not exceeding 75 words.

3×5=15

1. Write a note on software maintenance.3
2. Explain advantages and disadvantages of software reuse. 3

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3. Differentiate between functional and non-functional requirements. 3
4. Explain cyclomatic complexity. 3
5. Describe prototype model and its advantages. 3

Section-B

(Short Answer Type Questions)

Note : Attempt any two questions out of the following three questions. Each question carries 7½ marks. The words limit is 200 words for each answer.

2×7.5=15

6. Describe system specification. Describe software requirement specification.
7. What are the differences between software design and project planning? Explain it.

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8. What do you mean by system testing?
Explain any two system testing.

Section-C

(Long Answer Type Questions)

Note : Attempt any three questions out of the following five questions. Each question carries 15 marks. Detailed answer is required. $3 \times 15 = 45$

9. What is software process model? Explain the advantages and disadvantages of spiral and prototyping model.
10. What do you understand by software reliability metrics? Explain the different types of software reliability metrics.
11. Explain different test strategies.

12. Discuss the concept of software maintenance process. Justify the statement "Software maintenance is costlier."

13. Explain the following:
- (i) Quality Assurance
 - (ii) Software cost estimation
 - (iii) Test Planning