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(Printed Pages 3)
Roll No. _____

23/3200

B.C.A. (Fourth Semester)

Examination, 2023

Third Paper

(Software Engineering)

Time : Three Hours]

[Maximum Marks : 75

Note : Attempt any **five** questions. All questions carry equal marks.

Note : The answers to short answer type questions should not exceed 200 words and the answer to long answer type questions should not exceed 500 words.

1. (a) What is the objective behind adoption of software engineering principles? 7
- (b) Define and explain briefly, the meaning of software components. 8

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2. What are the attributes for a good quality software? Discuss. 15
3. Discuss the software development life cycle with the help of neat diagram. Enumerate the activities that take place during each phase. 15
4. Write a short note on: 7+8
 - (a) Requirement Specification Document
 - (b) Requirement Analysis Activities
5. What do you understand by a software process? What are the methods by means of which processes can be identified and allocated to physical elements? 15
6. What are the key elements to be taken care of in the Design phase? Elaborate on the different aspects of procedural design. 15

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7. Describe the Object Oriented Design paradigm, briefly illustrating its advantages.

15

8. Differentiate between the following: $7+8=15$

(i) Design and Implementation

(ii) Top Down and Bottom up approach in coding

9. Why is maintenance required for software?

Distinguish between adaptive maintenance and corrective maintenance with examples.

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