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(20623)  
BCA – IV Sem.

Printed Pages : 3  
Roll No. ....

**18018**

**B.C.A. Examination, June–2023**  
**SOFTWARE ENGINEERING**  
**(BCA-403)**

Time : 3 Hours] [Maximum Marks : 75

**Note:** Attempt all the Sections as per instructions.

**Section–A**

**(Very Short Answer Type Questions)**

**Note :** Attempt the *five* questions. Each question carries three marks. Very short answer is required not exceeding 75 words.  $5 \times 3=15$

1. Explain how verification is different from validation? 3
2. What are objectives of testing? 3
3. Define SRS. Describe the importance of a good SRS. Why it is called 'black box'? 3
4. Explain waterfall model with a neat diagram. 3
5. What are the fundamental activities of a software process? 3

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**Section–B**

**(Short Answer Type Questions)**

**Note:** Attempt any *two* questions out of the following three questions. Each question carries  $7\frac{1}{2}$  marks. The word limit is 200 words for each answer.

$2 \times 7.5=15$

6. How we estimate cost of a software by Constructive Cost Model? Explain all the three modes of COCOMO model with example. 7.5
7. Explain the fundamental software design concepts in detail. 7.5
8. Discuss the differences between black box and white box testing. <https://www.ccsustudy.com> 7.5

**Section–C**

**(Long Answer Type Questions)**

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

9. Discuss various key process areas of CMM at various maturity levels. 15
10. Describe 'Software Quality Assurance'. What are different Software Quality measures? 15

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11. What is project management? Explain various activities of project management. 15
12. (i) Explain software reuse. 8+7
- (ii) Explain system design process with a diagram.
13. (i) Explain cohesion and it's different types. 8+7
- (ii) Explain different type of reliability metrics.

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