

B.C.A (Part—III) Semester—V Examination
SOFTWARE ENGINEERING
Paper—5 ST 3

Time : Three Hours]

[Maximum Marks : 60

N.B. :— (1) **ALL** questions are compulsory.

(2) Assume suitable data wherever necessary.

(3) Draw well labelled diagram wherever necessary.

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| 1. | (A) What is software ? Explain the software characteristics. | 6 |
| | (B) Explain the waterfall model for Software Engineering. | 6 |

OR

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| 2. | (A) Explain the Spiral model of software life cycle. | 6 |
| | (B) Define requirement engineering. Explain requirement engineering process. | 6 |
| 3. | (A) Explain various issues in software cost estimation. | 6 |
| | (B) Explain the terms :— | |
| | (i) Project resources | |
| | (ii) Software sizing. | 3+3=6 |

OR

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| 4. | (A) What is Risk Management in software development ? | 6 |
| | (B) Explain COCOMO model. | 6 |
| 5. | (A) What is the need of problem partitioning ? Explain with suitable example. | 6 |
| | (B) What are the various symbols used in E-R Diagram ? Explain it with suitable example. | 6 |

OR

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| 6. | (A) Explain Top-Down and Bottom-Up strategies. | 6 |
| | (B) Why system documentation is necessary ? Explain. | 6 |

7. (A) What is OO programming ? Write down advantages of OOP. 6
(B) What is information Hiding ? Explain. 6

OR

8. (A) Explain structured programming. 6
(B) Explain the role of Resource Management. 6

9. (A) Explain the following terms :—

(i) ISO

(ii) SQA.

3+3=6

- (B) Explain in brief V and V planning tools and technique. 6

OR

10. (A) What are software quality parameters ? Explain. 6
(B) Explain the role of CASE tools in detail. 6