

Roll No.

Total Pages : 2

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BCA/M-23

SOFTWARE ENGINEERING

Paper-BCA-205

Time : 3 Hours]

[Maximum Marks : 80

Note : Question No. 1 is compulsory. In addition to that, attempt **four** more questions selecting **one** question from each unit. All questions carry equal marks.

Compulsory Question

1. (a) What is software crisis? Discuss the problem and its causes. (4)
- (b) Discuss technical and economical feasibility. (4)
- (c) What is Data dictionary? Explain. (4)
- (d) Differentiate between load and stress testing. (4)

UNIT-I

2. Discuss waterfall model of software development. What are its advantages and limitations? (16)
3. (a) Explain Iterative Enhancement Model of software development. (8)

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- (b) What are metrics? What are desirable characteristics of a good metric? (8)

UNIT-II

4. Discuss the characteristics and components of Software Requirement Specification. (16)
5. Discuss various information gathering tools. (16)

UNIT-III

6. What is cohesion? Discuss various types of cohesion. (16)
7. (a) Discuss various types of software maintenance. (8)
- (b) What is the role of PERT and CPM in project scheduling? Also discuss Gantt charts. (8)

UNIT-IV

8. (a) What are the different techniques of cost estimation and which is better than other techniques? Discuss. (10)
- (b) Discuss various activities of software quality assurance. (6)
9. (a) What is integration testing? Explain different integration techniques. (8)
- (b) What is project monitoring? What are different methods for project monitoring? (8)