

Roll No.

Total Pages : 2

BCAM-15

19017

SOFTWARE ENGINEERING

Paper-BCA-205

Time Allowed : 3 Hours]

[Maximum Marks : 80

Note : Attempt **five** questions in all, selecting at least **one** question from each Unit. Question No. 1 is compulsory. All questions carry equal marks.

Compulsory Question

1. (a) Define Software.
- (b) What are various Software development process models?
- (c) What is the purpose of E-R diagrams?
- (d) What is the purpose of Gantt and PERT chart?
- (e) What are different forms of System testing?
- (f) What is SCM?
- (g) What is the difference between Validation and Verification?
- (h) What are different types of Maintenance? 16

UNIT-I

2. (a) What is a Software crisis? Discuss various remedies that can be applied to get out of Software crisis. 8

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(b) What are different phases of Software development? 8

3. Explain Waterfall model along with its advantages and limitations. 16

UNIT-II

4. What is SRS? Explain the need, characteristics and components of an SRS? 16

5. What are various Information gathering tools? 16

UNIT-III

6. Write short notes on the following : 16

(a) Data flow diagram

(b) Decision trees.

7. (a) What is the difference between Coupling and Cohesion? 8

(b) Explain Software maintenance along with its types and characteristics. 8

UNIT-IV

8. What is the purpose of Testing? Explain various Software testing strategies. 16

9. Write short notes on the following :

(a) Project Scheduling

(b) Risk Management. 16