Roll No.

**Total Pages : 03** 

# BCA/M-19 19017 SOFTWARE ENGINEERING BCA-205

Time : Three Hours]

1

[Maximum Marks: 80

Note: Attempt Five questions in all, selecting one question from each Unit. Q. No. 1 is compulsory.

### (Compulsory Question)

. (a) What is Software Crisis ? Discuss the causes of	DI It	0.	causes	the	Discuss	?	Crisis	Software	is	What	(a)	
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(b) Discuss the relative advantages of formal and informal requirements specifications. 4

- (c) What is PERT Chart ? Discuss.
- (d) What is Beta Besting ?

### Unit I

- 2. Discuss the spiral model of software development. What are its advantages over prototype model ? 16
- 3. (a) What is a Software Process ? Discuss the desired characteristics of software process. 8

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(b) Why do we need metrics in software engineering ? List few metrics along with their role. 8

### Unit II

- (a) What is the need of SRS ? List five desirable characteristics of a good SRS document.
- (b) What are different types of requirement gathering activities that the analysts use to gather requirements from a customer ? 8
- 5. (a) Differentiate between verification and validation. 8
  (b) Discuss various software configuration management activities 10

### Unit III

- 6. (a) What is Data Flow Diagram ? What are its shortcomings as a tool for perfoming structured analysis ?
  - (b) What do you mean by data dictionary in the context of structured analysis ? How is it useful software development and maintenance ?
  - 7. What is Cohesion ? What are different types of cohesion that a module might exhibit ? Explain using examples.

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32

#### Unit IV

- 8. (a) Explain, how COCOMO 2 estimation model differs from the original COCOMO model.
  - (b) What is Project Planning ? Discuss the essential activities of project planning.
- 9. (a) What do you understand by system testing ? Discuss the different kinds of system testing.

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(b) Discuss big-bang, bottom-up, top-town and mixed integration testing.

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