

Roll No.

Total Pages : 2

GSM/D-21

1199

SOFTWARE ENGINEERING

Paper-BCA-234

Time : Three Hours]

[Maximum Marks : 80

Note : Attempt *five* questions in all, selecting *one* question from each unit. 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 diagram?
- (d) Error, Fault and failure.
- (e) What is scm?
- (f) Define verification and validation.
- (g) What are different types of maintenance?
- (h) Alpha and Beta Testing. (2×8=16)

UNIT-I

2. (a) What is Software crisis? Discuss various reasons for Software Crisis.
- (b) What are different characteristics of software process? (8×2=16)

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3. Explain Waterfall and prototype 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. (a) Write short notes on the following :
(i) Data flow diagram. (4×2=8)
(ii) Data Dictionary.
(b) What is the difference between Coupling and Cohesion? (16)
7. Explain Software maintenance along with its types and characteristics. (16)

UNIT-IV

8. What is the purpose of testing? Explain Functional Testing in Detail. (16)
9. Write short notes on the following :
(i) Project Scheduling.
(ii) Risk Management. (8×2=16)