

Roll No.

Total Pages : 03

BCA/D-17

1242

SOFTWARE ENGINEERING

BCA-234

Time : Three Hours]

[Maximum Marks : 80

Note : Attempt *Five* questions in all. Q. No. 1 is compulsory. In addition to this attempt *four* more questions selecting *one* question from each Unit. All questions carry equal marks.

Compulsory Question

1. Answer the following questions in brief : 4×4
- (i) What are the attributes of good software ?
 - (ii) What do you mean by feasibility study ? Explain technical and operational feasibility ?
 - (iii) Explain Decision table with the help of an example.
 - (iv) Explain the Putnam Resource allocation model.

Unit I

2. (a) List the task regions in spiral model. What are the advantages and limitations of this model ? 8
- (b) Explain different software crisis problems with their causes. 8

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3. (a) Discuss advantages and disadvantages of waterfall model. 8
- (b) Explain the programming paradigms given below : 4×2
- (i) Imperative paradigm
 - (ii) Functional paradigm
 - (iii) Logical paradigm
 - (iv) Object-oriented paradigm.

Unit II

4. Define SRS. Explain various components of SRS. Also give general structure of the SRS. 16
5. (a) What is SCM (Software Configuration Management)? Describe the process of SCM. 8
- (b) Explain SQA (Software Quality Assurance) by giving its various methods. 8

Unit III

6. Explain the concept of Data Flow Diagram (DFD). Define the following DFD terms by giving their symbols : 4×4
- (a) External entity
 - (b) Data flow
 - (c) Process
 - (d) Data Store.

7. (a) Explain entity relationship diagram with the help of an example. 8
- (b) Discuss importance of maintenance by giving its various types. 8

Unit IV

8. (a) Differentiate between black box and white box testing. 8
- (b) What do you mean by Project Monitoring ? Explain various tools and techniques of monitoring. 8
9. Explain the following types of testing : 8×2
- (a) Unit testing
 - (b) System testing
 - (c) Alpha testing
 - (d) Beta testing
 - (e) Acceptance testing
 - (f) Mutation testing
 - (g) Regression testing
 - (h) Stress testing.

