Roll No…… Total Pages: 3

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BCA/D-17

SOFTWARE ENGINEERING

Paper: BCA-234

Time: Three Hours Maximum Marks: 80

Note: Attempt five questions in all. Q. No. 1 which 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 :
   (i) What are the attributes of goods 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.
   (v)

Unit-I

2. (a) List the task regions in spiral model. What are the advantages and limitations of this model?

   (b) Explain different software crisis problems with their causes.

3. (a) Discuss advantages and disadvantages of waterfall model.

   (b) Explain the programming paradigms given below :
   (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.

5. (a) What is SCM (Software Configuration Management)? Describe the process of SCM

   (b) Explain SQA (Software Quality Assurance) by giving its various methods.

Unit-III

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

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

Unit-IV

8. (a) Differentiate between black box and white box testing.

   (b) What do you mean by Project Monitoring? Explain various tools and techniques of monitoring.

8. Explain the following types of testing :
   (a) Unit testing
   (b) System testing
   (c) Alpha testing
   (d) Beta testing
   (e) Acceptance testing
   (f) Mutation testing
   (g) Regression testing
   (h) Stress testing.

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