Roll No. ....

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BCA / D-18

SOFTWARE ENGINEERING

Paper-BCA-234

Time allowed : 3 hours]   *[Maximum marks : 80*

*Note : Question No. 1 is compulsory. Attempt any **four** other questions, selecting at least **one** question from each unit.*

Compulsory Question

1. (a) State two advantages of spiral model.   8×2=16

    (b) List the symbols used DFD.

    (c) What is software metric ?

    (d) Distinguish between Alpha and Beta testing.

    (e) What types of faults are detected by integration testing ?

    (f) Distinguish between implementation and maintenance.

    (g) What is the importance of software project planning ?

    (h) State any two factors of quality assurance.

Unit-I

2. Discuss different phases in SDLC model ? Explain with diagram Prototype and Spiral models in detail.   16

3. (a) What is Software Engineering ? Discuss different characteristics of software and hardware.   10

    (b) What do you understand by software crisis ? Write a detailed note on the factors responsible for software crisis.

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Unit-II

4. (a) Discuss different information gathering tools in detail. 10

    (b) Write short note on the following :   6

      (a) Feasibility Study

      (b) SCM

5. (a) What is SRS ? What are its different components ? Discuss.   10

    (b) What are central problems in producing SRS for a system ? Discuss briefly.   6

Unit-III

6. (a) Discuss different Structured Analysis tools in detail. 10

    (b) What is Software Maintenance ? Briefly discuss characteristics of maintenance.   6

7. (a) What do you mean by cohesion ? Discuss various levels of cohesion.   10

    (b) How cohesion is related to coupling ? Discuss briefly. 6

Unit-IV

8. What do you mean by cost estimation models ? What are uncertainties in cost estimation ? Discuss COCOMO model in detail.   16

9. Write short notes on the following :   16

    (a) Risk Management

    (b) Module Testing

    (c) Team Structure

    (d) Project Scheduling

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