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(2nd Semester)

BACHELOR OF COMPUTER APPLICATIONS

Paper No. : BCA–204

(System Analysis and Design)

Full Marks : 75

Time : 3 hours

(PART : B—DESCRIPTIVE)

(*Marks* : 50)

*The figures in the margin indicate full marks
for the questions*

1. (a) What are the characteristics of a system?　　5

   (b) Differentiate between real-time and distributed systems.　　5

   Or

   (c) Explain briefly the types of systems.　　5

   (d) Explain system boundary and environment with examples.　　5

2. *(a)* What is SDLC? Explain the various phases of SDLC.   10

Or

(b) What is documentation? Explain the uses of documentation.   5

(c) Explain different types of documentation.   5

3. *(a)* Write short notes on the following :   10

    (i) Technical feasibility

    (ii) Economic feasibility

    (iii) Interviews

    (iv) Group communication

Or

(b) Define open-ended and closed-ended questionnaire. Explain how to develop a questionnaire.   10

4. *(a)* What is Entity Relationship Diagram? Explain the types of relationship exist among entities and construct an *E-R* diagram for a car insurance company whose customers own one or more cars each. Each car has associated with it zero to any number of recorded accidents.   10

Or

(b) Illustrate the role of CASE tools in system analysis and design. What are its advantages and disadvantages?   10

5. (a) What is planning for system implementation? Explain the four methods of handling the system conversion.   5

(b) List and discuss the desirable qualities of the system acceptance criteria.   5

Or

(c) Explain the various stages in the testing process.   5

(d) Discuss, in detail, about the quality assurance activity.   5

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