Roll No. ☐☐☐☐☐☐☐☐☐☐☐   Total No. of Pages : 02

Total No. of Questions : 09

B.Tech.(IT) (2011 Onwards) (Sem.–5)
# SYSTEM ANALYSIS AND DESIGN
Subject Code : BTIT-501
M.Code : 70594

Time : 3 Hrs.   Max. Marks : 60

INSTRUCTIONS TO CANDIDATES :
1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
2. SECTION-B contains FIVE questions carrying FIVE marks each and students have to attempt any FOUR questions.
3. SECTION-C contains THREE questions carrying TEN marks each and students have to attempt any TWO questions.

SECTION-A

Q1. Write briefly : (2×10=20)

a) Distinguish between manual and automated systems.

b) What do you mean by Real-time and distributed systems?

c) Differentiate between Logical and physical design.

d) Write two advantages of site visits technique for data and fact gathering.

e) What are structured charts? Explain.

f) Explain the term System Implementation and Maintenance.

g) List various threats to computer system.

h) Differentiate between Top-down and Bottom-up design.

i) Explain the term Audit trails.

j) Differentiate between Module Coupling and Cohesion.

SECTION B

Q2. Write a brief note on various characteristics of a system.   5

Q3. Explain in brief the types of documentation and their importance.   5

Q4. Explain in brief the Interviews technique in reference to data and fact gathering techniques.
                                                                                   5

Q5. Write a brief note on Data Flow diagrams.   5

Q6. Write a detailed note on Input/output forms design.   5

SECTION-C

Q7. Explain the different roles of a system analyst in detail.   10

Q8. Discuss the case study for developing prototype for Hospital Management System.   10

Q9. Explain the following in brief :

a) Class Diagram   3

b) State Diagram   3

c) Sequence Diagramming   4

NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.