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# 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:**

- 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:  $(2\times10=20)$ 

- 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.

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## **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 technique	iques. 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
	Explain the following in brief:  a) Class Diagram  b) State Diagram  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.

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