

[Total No. of Questions - 9] [Total No. of Printed Pages - 2]  
(2125)

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**B. Tech 4th Semester Examination**  
**System Analysis & Design (OS)**  
**IT(ID)-4004**

**Time : 3 Hours**

**Max. Marks : 100**

*The candidates shall limit their answers precisely within the answer-book (40 pages) issued to them and no supplementary/continuation sheet will be issued.*

**Note :** Attempt five questions in all selecting one question each from sections A, B, C and D. Section - E is compulsory.

**SECTION - A**

1. Discuss the role of cost and benefit Analysis in developing a system. (20)
2. What are the various phases of System Development Life cycle? Describe each in brief. (20)

**SECTION - B**

3. What do you understand by fact finding techniques? Also describe how facts are recorded? (20)
4. Using a suitable example, explain the different components of E-R diagram. (20)

**SECTION - C**

5. What is output design? Discuss types of output and information delivery. (20)
6. Why is database design important? Discuss physical storage structure design. (20)

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**SECTION - D**

7. What is system testing? Explain the various steps in system testing. (20)
8. How can system operation and support be managed? (20)

**SECTION - E**

9. (i) What is a system? (2)
- (ii) Differentiate between functional and non-functional requirement. (2)
- (iii) Discuss the role of maintenance in system Analysis & Design. (2)
- (iv) Describe the role of documentation. (2)
- (v) Write short notes on:  
(a) DFD (b) Data dictionary (c) RDBMS (d) Decision table  
(e) Forms. (2×5=10)
- (vi) What do you understand by feasibility? (2)