

(i) Printed Pages : 2

Roll No.

(ii) Questions : 9

Sub. Code :

1	3	4	5	3
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Exam. Code :

5	0	4	4
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**Bachelor of Computer Application (FYUP) 4th Semester
(2056)**

**INFORMATION SYSTEM DESIGN AND
IMPLEMENTATION**

Paper : BCA-DSC-4 (Maj)-403

Time Allowed : Three Hours]

[Maximum Marks : 90

Note :— Attempt **FIVE** questions in all, selecting **ONE** question each from Units I to IV and Unit V is compulsory. All questions carry equal marks unless specified.

UNIT - I

1. (a) Explain various types of systems: Physical and Abstract systems, Open and Closed systems, and Man-made information systems.
- (b) Describe the various phases of the System Development Life Cycle (SDLC). 9,9
2. (a) Discuss the role, skills, and duties of a System Analyst.
- (b) Define a system. Explain the characteristics and elements of a system. 9,9

UNIT - II

3. (a) Describe initial investigation and problem definition.
- (b) Explain the concepts of fact finding and fact analysis. 9,9

4. (a) Explain information gathering tools: interviews, questionnaires, and observation.
- (b) Discuss Decision Tree and Decision Table with advantages and disadvantages. 9,9

UNIT - III

5. (a) Define feasibility study and explain types of feasibility.
- (b) Explain types of system testing including WBT and BBT. 9,9
6. (a) What are the contents of feasibility report?
- (b) Write a note on Quality Assurance and its levels. 9,9

UNIT - IV

7. (a) Explain system implementation and conversion methods.
- (b) Explain software selection criteria and evaluation process. 9,9
8. (a) Explain software maintenance and reducing maintenance cost.
- (b) Explain user training and post implementation review. 9,9

UNIT - V (Compulsory Question)

9. (a) What is DFD?
- (b) Define system testing.
- (c) What is feasibility study?
- (d) Define black box testing.
- (e) What is data dictionary?
- (f) Define vendor selection.
- (g) What is system environment?
- (h) Define quality assurance.
- (i) What is file conversion? 2×9=18