

Roll No.

Total No. of Questions : 09]

[Total No. of Pages : 02

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MCA (Sem. - 1st)

SYSTEM ANALYSIS AND DESIGN

SUBJECT CODE : MCA-105

Paper ID : [B0105]

[Note: Please fill subject code and paper ID on OMR]

Time : 03 Hours

Maximum Marks : 60

Instruction to Candidates:

- 1) Attempt any one question from each Sections - A, B, C & D.
- 2) Section - E is **Compulsory**.
- 3) Use of Non-programmable **Scientific Calculator** is allowed.

Section - A

(1 × 10 = 10)

Q1) What is SDLC? Discuss in detail its phases.

Q2) Define and explain the procedure for cost/benefit determination.

Section - B

(1 × 10 = 10)

Q3) Describe the concept and procedure used in constructing DFDs. Use an example of your own to illustrate.

Q4) Explain the differences between structured and unstructured interviewing and also discuss the primary steps in interviewing.

Section - C

(1 × 10 = 10)

Q5) Discuss the design methodologies used in system design.

Q6) Write short notes on:-

- a) File Organization
- b) System Testing

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Section - D

(1 × 10 = 10)

Q7) Explain major activities in conversion.

Q8) Discuss the major phases in selection.

Section - E

(10 × 2 = 20)

Q9)

- a) Differentiate between static and dynamic system models.
- b) What is meant by analyst/user interface?
- c) What is a decision tree?
- d) What is behavioral feasibility?
- e) What is the significance of data dictionary?
- f) List characteristics of a good interface.
- g) What is post-implementation?
- h) What is tailored software?
- i) Define module coupling.
- j) What is an activity network?

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