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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

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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