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Total No. of Questions : 09]

[Total No. of Pages : 02

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**MCA (Sem. - 1<sup>st</sup>)**

**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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