

MCA (Sem. - 1st)
SYSTEM ANALYSIS AND DESIGN
SUBJECT CODE : MCA - 105

Paper ID : [B0105]

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

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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 System Development Life Cycle? Explain its various phases.
- Q2)** (a) What do you mean by System. What are the basic implications of a system.
- (b) List four characteristics by which open systems can be identified.

Section - B

(1 × 10 = 10)

- Q3)** (a) What are the various rules and conventions for constructing a DFD.
- (b) What is a data dictionary? Specify at least 2 symbols and 2 rules that govern the construction of data dictionary entries.
- Q4)** What do you mean by Requirement analysis? Explain in detail the various Information gathering tools used in the Analysis phase.

Section - C

(1 × 10 = 10)

- Q5)** Define a form. List the five characteristics of a form with an example for each. Also, explain at least four factors that need to be considered in form design.
- Q6)** (a) Explain various types of file organization.
- (b) What are the types of system tests.

Section - D

(1 × 10 = 10)

Q7) Explain the procedure for hardware/software selection.

Q8) (a) Explain the activity network for conversion.

(b) Explain various factors that determine the quality of the system.

Section - E

(10 × 2 = 20)

Q9)

a) What is System.

b) Define Feedback.

c) What are open questionnaires and closed questionnaires.

d) Differentiate between zero level and first level DFD.

e) What do you mean by system analysis and its need.

f) Why is maintenance necessary.

g) What is meant by user interface.

h) What is post implementation.

i) What is Behavioral Feasibility.

j) What is positive and acceptance testing.



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