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Total No. of Questions : 09] [Total No. of Pages : 02

Paper ID [B0105]

(Please fill this Paper ID in OMR Sheet)

MCA (Sem. - 1st)

SYSTEM ANALYSIS AND DESIGN (MCA - 105)

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**.

Section - A

(1 × 10 = 10)

Q1) Define the term system and its characteristics? Explain the system development life cycle.

Q2) Differentiate between the following :

- Initial Investigation and Analysis.
- Economic and technical feasibility.

Section - B

(1 × 10 = 10)

Q3) What do you mean by Requirement analysis? Explain in detail the various information gathering tools used in the Analysis phase.

Q4) Compare and contrast the terms Decision Trees and Decision Tables with a suitable example.

Section - C

(1 × 10 = 10)

Q5) Name the various system design methodologies and describe in brief the input and output design steps in detail.

Q6) Define the term : file organization and differentiate between chaining and inverted lists.

Section - D

(1 × 10 = 10)

Q7) Explain in detail the various activities involved in the software selection process.

Q8) What is the goal of software testing? Explain various types of system tests.

Section - E

(10 × 2 = 20)

Q9) a) What is the difference between tangible and intangible value?

b) What do you mean by system analysis and its need?

c) What are the common processes associated with data stores?

d) Differentiate between zero levels and first level DFD.

e) How is requirement related to design phase?

f) Write the main criteria used for software selection?

g) What do you mean by system implementation?

h) What are the various sources of change requests?

i) What is activity network and its need?

j) Why testing is as important as programming.