

Roll No.

Total No. of Questions : 09]

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MCA (Sem. - 1st)

SYSTEM ANALYSIS AND DESIGN

SUBJECT CODE : MCA - 105 (N2)

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) Define the term system and its characteristics? Explain in brief the various types of systems.

Q2) Explain in brief role of system analyst in system development.

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) Describe in detail the various tools used for structured analysis. .

Section - C

(1 × 10 = 10)

Q5) How system testing is different from debugging. Describe in brief the various system testing techniques.

Q6) Differentiate between the terms :

- Sequential and Indexed sequential file organization
- Input and Output design.

Section - D

(1 × 10 = 10)

- Q7)** Explain in detail various phases of software selection process.
- Q8)** Discuss the main activities that happen during the implementation phase of system development life cycle.

Section - E

(10 × 2 = 20)

- Q9)**
- a) What is the difference between behavioural and economic feasibility?
 - b) Name various phases of system development life cycle.
 - c) What is activity network?
 - d) How can a system combat the resistance to change?
 - e) Write the criteria used for software selection?
 - f) What do you mean by Pilot conversion?
 - g) Name the activities associated with the design phase.
 - h) What is the primary goal of acceptance testing?
 - i) What do you mean by post-implementation?
 - j) Name various characteristics of good user interface.

