

Roll No.

Total No. of Questions : 09]

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MCA (Sem. – 1st)
SYSTEM ANALYSIS & DESIGN

SUBJECT CODE : MCA - 105

Paper ID : [B0105]

Time : 03 Hours

Maximum Marks : 60

Instruction to Candidates:

- 1) Attempt any one question from Sections A , B, C & D.
- 2) Section E is **Compulsory**.
- 3) Use of Non-programmable **Scientific Calculator** is allowed.

Section – A

- Q1) What is system? Discuss its characteristics? Explain various types of system with their relative merits and demerits. (1. × 10 = 10)
- Q2) What is SDLC? Explain various phases of SDLC for automation of university examination system.

Section – B

- Q3) What are various information gathering tools? Compare and contrast various information gathering tools. (1 × 10 = 10)
- Q4) Write a note on:
a) Decision Tree b) Structured Analysis c) Structured English

Section – C

- Q5) What are various principles of system design? Explain the concept of structured design, input design and form design by taking suitable examples. (1 × 10 = 10)
- Q6) What is file organization? Explain the advantages and disadvantages of various file organizations.

Section – D

- Q7) Explain the procedure and major phases of hardware and software selection. (1 × 10 = 10)
- Q8) What is system implementation? Explain various system implementation methods with their relative merits and demerits.

Section - E

Q9)

(10 × 2 = 20)

- a) Who is system analyst? Explain role of system analyst in system development.
- b) What is cost benefit analysis? Explain.
- c) Explain the role of behavioral feasibility in system analysis.
- d) What is decision table? Explain with an example.
- e) What is data dictionary? What are its types?
- f) What is file? Explain different types of files.
- g) Explain how white box testing is different from black box testing.
- h) What are test oracles? Explain.
- i) What is make v/s buy decision? Explain.
- j) What is need of software maintenance? Explain the difference between corrective and perfective software maintenance.

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