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Total No. of Questions : 09]

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Paper ID [MC105]

(Please fill this Paper ID in OMR Sheet)

MCA (Sem. - 1st)

SYSTEM ANALYSIS AND DESIGN (MCA - 105) (N2)

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)** What is a PERT diagram? Discuss advantages of using a PERT diagram over a Gantt chart for scheduling systems projects.
- Q2)** What is software development life cycle? Also discuss its various phases.

Section - B

(1 × 10 = 10)

- Q3)** What are interviews? Discuss the various steps in interview preparation. Also discuss how we can strengthen our question types in an interview.
- Q4)** What is a context level data flow diagram? Create a context diagram for billing in a dental office. External entities include patients and insurance companies.

Section - C

(1 × 10 = 10)

- Q5)** Discuss the design objectives for paper input forms, input screens or Web-based fill-in forms? Also discuss guidelines for good form design.
- Q6)** What is file organization? Differentiate between sequential and indexed sequential file organizations with the help of examples.

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Section - D

(1 × 10 = 10)

- Q7)** What do you mean by successful implementation of a system? Design appropriate training programs of the new system.
- Q8)** What is the importance of hardware/software selection for a system implementation? Discuss procedure and major phases in selection.

Section - E

(10 × 2 = 20)

Q9)

- a) What is executive support system?
- b) What is meant by CMMI?
- c) What is a decision table?
- d) What do you mean by behavioral feasibility of a system?
- e) Define the term data dictionary. Also define metadata.
- f) What is meant by close-ended interview questions?
- g) What is Joint Application Design (JAD)?
- h) What do you mean by system testing?
- i) What is client-server model?
- j) What is the significance of UML?

