

[Total No. of Questions : 8]

S.E. (Comp.) (Semester - IV) (RC) Examination, Nov. - 2011

SYSTEM ANALYSIS & DESIGN

Duration : 3 Hours

Total Marks : 100

Instructions : 1) Answer any five questions, by selecting at least 1 full question from each module.
2) Assume necessary details, if any.

MODULE - I

- Q1) a) Explain prototyping with a neat diagram. [3]
b) Explain the various stages in SDLC. Support your answer with neat diagram. [8]
c) Explain the various steps in system design with a neat diagram. [5]
d) Why is database important in MIS? [4]
- Q2) a) What are the interpersonal and technical skills required by a system analyst? [8]
b) Explain 5 important characteristics of open system. [5]
c) Write short notes on: [4]
i) User motivation.
ii) Analyst / User differences.
d) What is system? List different types of system. [3]

MODULE - II

- Q3) a) Discuss the various types of costs and benefits with suitable example. [6]
b) List and explain primary steps in interviewing. [6]
c) Explain and give example of each:- [8]
i) Fill - in - the - blanks questions.
ii) Dictotomous questions.
iii) Ranking scales questions.
iv) Multiple choice questions.
- Q4) a) What is DFD? What are the symbols and rules in DFD construction? [6]
b) List and explain in detail, tools of structured analysis. [8]
c) Explain break-even analysis. [6]

MODULE - III

- Q5)** a) Distinguish between the following: [4]
i) Logical and physical design.
ii) Coupling and cohesion.
- b) Explain briefly 3 approaches for data entry. [6]
c) What factors determine paper selection? Explain. [6]
d) What is a data structure? Explain any 1 datastructures with diagram. [4]
- Q6)** a) What is the purpose behind normalization? How does one normalize a file? Explain with an example. [8]
b) What is a form? Summarize the characteristics of action, memory and report form. [6]
c) What design methodologies are used in system design? Briefly describe. [6]

MODULE - IV

- Q7)** a) What is quality assurance? List and briefly describe the factors that affect the quality of a system. [8]
b) Distinguish between the following: [6]
i) Hardware and service supplies.
ii) RFP and vendor proposal.
iii) Portability and understandability.
c) What is syntax error? How does it differ from a logic error? Give example. [4]
d) Define system testing and stress testing. [2]
- Q8)** a) With the help of diagram explain encryption/ decryption technique used for system security. [6]
b) What are the methods of data acquisition? Elaborate on pros and cons of each method. [6]
c) What is a GANTT chart? How does it differ from PERT chart? Explain. [6]
d) Define alpha and beta testing. [2]
- ✿ ✿ ✿