

301602

May 2024

B.B.A. (GEN) - VI SEMESTER**System Analysis and Design****(BBA-GEN-602)**

Time : 3 Hours]

[Max. Marks : 75

Instructions :

1. *It is compulsory to answer all the questions (1.5 marks each) of Part-A in short.*
2. *Answer any four questions from Part-B in detail.*
3. *Different sub-parts of a question are to be attempted adjacent to each other.*

PART-A

1. (a) What is the need to develop the prototype of system? (1.5)
- (b) What is the difference between analysis and design? (1.5)
- (c) What are basic elements of data modelling? (1.5)
- (d) What is the purpose of integration testing? (1.5)
- (e) What are major drawbacks of a file system? (1.5)

- (f) What is the difference between DFD and ER diagram? (1.5)
- (g) What is the difference between real time system and distributed system? (1.5)
- (h) What are functional and non-functional requirements? Give two examples of each. (1.5)
- (i) What is the significance of data dictionary? (1.5)
- (j) What is the difference between verification and validation? (1.5)

PART-B

- 2. (a) What is a system? Explain various characteristics and types of system. (6)
- (b) Explain system development life cycle (SDLC) in detail. Also discuss in detail the role of a system analyst in the development of a system. (9)
- 3. (a) What are the benefits of performing feasibility study? Discuss in detail various techniques for gathering requirements for the system development. (9)
- (b) Compare the relative advantages of decision tree with decision table. Represent the different decision making that take place when a user withdraws money from a bank ATM. (6)
- 4. (a) Draw a labelled DFD for Hospital Management System. (9)

- (b) Explain in detail how input-output design for a software can be carried out? (6)

- 5. (a) What is distributed data processing? Explain in detail, how will you design a distributed data base? (9)
- (b) Write an explanatory note on state transition diagrams in detail. (6)
- 6. (a) What is an entity-relationship (E-R) diagram? How is it useful in program development? Draw an E-R diagram for university library information system. (9)
- (b) What are the security issues in computer system? How does an organization prevent its database from security concern? Explain with an example. (6)
- 7. (a) What do you mean by cost-benefit analysis in system design? Illustrate cost-benefit analysis with an example. (9)
- (b) Discuss in detail event based real time analysis tools. (6)