QUESTION BANK

BACHELOR OF COMMERCE (COMPUTER APPLICATION) (BCCA)

Course: BCCA – III (Semester – V) **Subject: System Analysis & Design**

Part - A

(Each question carries **Two** marks)

UNIT – I

1. Define system
2. Write any two characteristics of system
3. What are the elements of system?
4. Write the three types of system.
5. What is SDLC?
6. Define prototyping.
7. Define system analyst.
8. Write any one role of system analyst.
9. What is MIS?
10. What is the role of analyst in MIS organization?

Part - B

(Each question carries **Three** marks)

UNIT – I

1. What the characteristics of systems?
2. Differentiate Formal or Informal and Physical or Abstract systems.
3. Write the difference between Open or close and Manual or Automated system.
4. What are the elements of systems?
5. Differentiate structured analysis and structured design
6. Why do organization need systems analysts?
7. Who are the internal and external users of information system?
8. Differentiate business analyst and system analyst.
9. What is the role of system analyst as change agent?
10. Write any three duties of system analyst.

Part - C

(Each question carries **Five** marks)

UNIT – I

1. What is system? Explain the characteristics and types of system element.
2. Write short note on MIS
3. Explain the function of OAS.
4. Explain decision supportive system in details.
5. Differentiate data and information.
6. Define system. Explain the objectives of system.
7. Describe the types of elements.
8. Describe man made system in details.
9. What are online and real time systems? Explain.
10. What are the stages of feasibility study?

Part - C

(Each question carries **Ten** marks)

UNIT – I

1. Define SDLC. Explain with all stages of SDLC.
2. Describe implementation and post implementation in maintenance.
3. Describe the role system analyst.
4. Describe the role of data administrator.
5. Write short note on:
   a)TPS
   b)OAS
6. Explain Management Information System(MIS) in brief. Give and explain any four tools of MIS.
7. Explain KWS in details.
8. Describe expert system in an organization.
9. Explain the term Organization, Interaction and interdependence of a system.
10. Discuss the concepts of MIS and DSS .How are they related? How do they differ?

Part - A

(Each question carries **Two** marks)

UNIT – II

1. Define information gathering.
2. List out the different methods of information gathering.
3. What are the different tools used for information gathering?
4. What are the tools of structured analysis?
5. Define feasibility study.
6. What is questionnaire in information gathering?
7. What is observation in information gathering?
8. Define operational feasibility.
9. What is a structured interview?
10. Define cost benefit analysis.

Part - B

(Each question carries **Three** marks)

UNIT – II

1. Define information .What are different tools of Information Gathering?
2. What is structured analysis? Differentiate decision trees and decision tables.
3. What is an on-site observation? Write any three disadvantages of On – Site Observation.
4. Why initial investigation is important?
5. Define DFD. Elaborate the symbols of DFD with example.
6. What is data dictionary?
7. How data dictionary is differ from traditional approach?
8. What are the traditional information gathering tools are available for the analyst?
9. List and explain the primary steps in interviews.
10. Differentiate open ended and close ended with example.

Part - C

(Each question carries **Five** marks)

UNIT – II

1. In what respect is interviewing an art? Explain.
2. Differentiate structured and unstructured questionnaire.
3. Describe the advantages and limitations of interviews and questionnaire.
4. Explain the types of interviews.
5. Describe the types of questionnaire.
6. Why review of literature is important in information gathering?
7. Why do we need the information?
8. Write short note on:
    a. Data flow diagram
    b. Data dictionary
9. In what way data flow diagram and decision tree related?

Part - C

(Each question carries **Ten** marks)

UNIT – II

1. Define information gathering. Describe tools for information gathering.
2. What is structured analysis? Explain tools of structured analysis.
3. Explain interviews and questionnaire with examples.
4. Describe the importance of review of Literature, procedures and forms in information gathering.
5. Write short note on -
    a. Data flow diagram
    b. Decision table and decision tree
6. Describe all the phases of feasibility study.

Part - A

(Each question carries **Two** marks)

UNIT – III

1. Define system design.
2. What is logical design?
3. What is physical design?
4. What is structured design?
5. Define input data.
6. Define output design.
7. What is form?
8. What are the types of forms?
9. What are the requirements of form design?
10. Differentiate snapout and fanfold form.
11. Define file.
12. Define sequential organization.
13. Define entities.
14. What is Attributes?
15. Write any two objectives of data base.

Part - B

(Each question carries **Three** marks)

UNIT – III

1. What is logical and physical design?
2. What is structured design? Explain any two of them.
3. What is audit trail?
4. What are the advantages of top-down design?
5. Why audit consideration is important in system design?
6. What is the goal of input design?
7. Define data structure. What are the major types?
8. What features does a relational DBMS offer?
9. Differentiate sequential and indexed sequential files.
10. What is documentation control?

Part - C

(Each question carries **Five** marks)

UNIT – III

1. Define process design. Explain logical and physical design.
2. What is design methodology? Explain HIPO and IPO chart.
3. Explain Documentation control.
4. Define structured design .How it is related to DFD?
5. Explain the key elements of a structure chart.
6. How HIPO chart related to structured design? What are its objectives?
7. What audit considerations are included in system design? Why they are important?
8. What is the goal of input design?
9. Explain briefly three approaches for data entry.
10. escribe form control.

Part - C

(Each question carries **Ten** marks)

UNIT – III

1. Describe the role of data administrator.
2. Describe entities, attributes and their values with example.
3. Distinguish between:
   a) Schema and subschema
   b) Logical and physical view of data
   c) Relation and Tuple
4. Define Data structure. What are major types? Illustrate
5. Differentiate Sequential and indexed sequential file organization with example.
6. Define entities and attributes with example. Describe types of relationship among entities with the help of Entity – Relationship Diagram.
7. Define relationship DBMS with its objectives and features.
8. Describe hierarchy of files. Also explain sequential organization and indexed sequential organization.

Part - A

Each question carries **Two** marks)

UNIT – IV

1. Define testing?
2. What is error?
3. What is system error?
4. List out the types of system test.
5. Define program testing.
6. Define string testing.
7. What is quality assurance?
8. List out the factors for quality factors.
9. What is implementation?
10. What is conversion?
11. What are the major activities in conversion?
12. Define hardware and software.

Part - B

(Each question carries **Three** marks)

UNIT – IV

1. Why do we test system? Explain.
2. Elaborate the importance of testing.
3. What are the types of test data are used in system testing?
4. What is syntax error? How it is differ from logic error? Give an example.
5. Define quality assurance. Discuss the factors that affect the quality of a system.
6. What is implementation? How it is differ from conversion?
7. Distinguish between parallel processing and system processing
8. What is the role of audit control trail in conversion?
9. What is the main procedure of software selection?
10. Write important steps for hardware selection.
11. What is the role of consultant?
12. What is evaluation and validation?

Part - C
(Each question carries **Five** marks)
UNIT – IV

1. Write short note on –(a)System testing (b)Quality assurance
2. What level of quality assurance must a system meet? Explain
3. Explain the procedure of post implementation review.
4. Elaborate the steps of maintenance procedure.
5. Describe the steps of software maintenance.
6. Differentiate maintenance and enhancement.
7. Write down the procedures for financial consideration in selection of software.
8. What is software? List out the steps of criteria for selection of software.
9. Write short note on vendor collection.
10. Explain the art of negotiation.

Part - C
(Each question carries **Ten** marks)
UNIT – IV

1. What is error? Explain types of error. Also describe the importance of testing.
2. What are the factors must be considered prior to system selection? Explain.
3. Differentiate:
   a) Reliability and security
   b) Performance and serviceability
   c) Functionality and Flexibility
4. In what way is computer negotiating an art? Explain.
5. How is computer industry classified? Explain.
6. Explain the following terms:
   a) Implementation
   b) User training
   c) Documentation
   d) Change agent