



Important Questions

Unit 1: Introduction to system Concepts

Q.1 Short Answer:

[2*10=20]

1. Define interface concept of system with example.
2. Define open and closed system
3. Define system and its elements
4. Difference between TPS and DSS
5. Define Interface
6. Define Feedback
7. Define Boundary
8. Define Formal system
9. Define Expert system
10. Define Input and Output.

Q.2 Long Answer:

[4*10=40]

1. Write short note: system characteristics.
2. Explain the types of formal Information system.
3. Write short note on Expert system.
4. Explain characteristics of system.
5. Define system? Describe types of system.
6. Describe MIS.
7. What is deterministic system?
8. What are Characteristics of open system?
9. Difference between Physical and abstract system.
10. Explain Interface of a system with example.



Unit 2 : Introduction to software Engineering

Q.1 Define the following terms:

[2*10=20]

1. Software Engineering.
2. Software
3. Software Quality
4. Product
5. Software Process model
6. Process
7. AI software
8. Product Transition
9. Process Layer
10. Embedded software.

Q.2 Answer the following question

[4*10=40]

1. What is software engineering? explain in detail
2. Explain characteristics of software in detail.
3. Why there is need of software Engineering?
4. Explain McCall's quality factors with diagram.
5. What is software process? Explain.
6. Explain general principles of software engineering.
7. Explain different layers in layered technology of software
8. Write a note on: Essence of Practice.
9. Describe software application domains in details.
10. Explain different layers in layered technology of software.



Unit 3: Software Development Life cycle (SDLC) and methodologies.

Q.1 Define the following terms: [2*10=20]

1. Process model.
2. Waterfall model.
3. Spiral model.
4. Incremental model.
5. SDLC
6. Prototype model
7. Concurrent model.
8. Validation.
9. Limitation of SDLC
10. What is system Design?

Q.2 Answer the following [4*10=40]

1. Explain prototype model 1 in detail.
2. Write a short note on preliminary investigation of SDLC.
3. Explain advantages of spiral model.
4. State note: Maintenance of system.
5. Explain Waterfall Model in detail.
6. Write a short note on preliminary investigation of SDLC.
7. State and explain any 3 framework activities in software Engineering.
8. Explain Waterfall Model in detail.
9. What is Prototyping? Explain in steps in prototyping.
10. Short note: Maintenance of system.



Unit 4 : Requirement Engineering

Q.1 Answer the following question in short:

[2*10=20]

1. What is requirement? Enlist types of requirements.
2. What is inception?
3. Define questionnaire. Give its types
4. Which are types of feasibility?
5. Explain structured interview.

Define the following terms:

1. Interview
2. Questionnaires
3. record Review
4. Observation
5. Requirement.

Q.2 Answer in brief:

[4*10=40]

1. Explain the fact finding technique in detail.
2. Write a difference between structured and unstructured interview.
3. Explain problem arise as elicitation occurs?
4. What is the need of the requirement engineering?
5. Explain prototyping model with its advantages and disadvantages.
6. What is feasibility study? Explain any one type in detail.
7. Explain in detail the tasks of the requirement engineering.
8. Compare structured interview with unstructured interview
9. Explain fact finding techniques in details.
10. Which are characteristics of SRS?



Unit 5: Analysis and Design Tools

Q.1 Define the following terms.

[2*10=20]

1. Data coupling
2. Decision Tree
3. Coupling
4. Decision Dictionary.
5. Input Design
6. Output Design.
7. Condition stub
8. Action stub.
9. Cohesion
10. Structured chart

Q.2 Answers the following questions in short:

[4*10=40]

1. What is mean by analysis and design tools?
2. What is DFD? Enlist its symbols.
3. What is structured design?
4. What is input design? Explain with example.



5. What is output design? Explain with example.
6. What is coupling? Explain any two types in detail?
7. What is decision tree and decision table?
8. What are the elements of DD?
9. Enlist objectives of input design and output design.
10. What is pseudo code? State its advantages and disadvantages.



Unit 6: Software Testing

Q.1 Answer the following question in short.

Define the following terms:

1. Functional Testing
2. White box Testing
3. Unit Testing
4. Structure Chart
5. Defect
6. Top-Down Approach
7. Test Case
8. Test plan
9. Stud and Driver
10. Unit
11. What is software testing?
12. Which are unit testing tools?
13. Enlist objectives of software testing.
14. Difference between Manual and Automation Testing
15. Types of system testing?
16. What is Black box testing?
17. Write a short note: Unit testing.



18. Write a short note: Black Box Testing.

Q.3 Answers the following questions in short:

[4*10=40]

1. Difference between white box and black-box testing.
2. Which are advantages of system testing?
3. Explain PDCA cycle of software.
4. Describe white box testing with suitable diagram.
5. Explain Integration testing in detail.
6. Write Advantages of Black box testing.
7. Write disadvantages of White box testing.
8. Write short notes on Integration testing.
9. Difference between white box and black box testing.
10. Difference between Manual and Automation Testing.



Unit 7 : Software Maintenance and software Re-engineering.

Q.1 Answer the following question:

[2*10=20]

Define the following terms:

1. Reengineering.
2. Reuse process.
3. Corrective Maintenance.
4. Adaptive Maintenance.
5. Preventive Maintenance
6. Code restructuring.
7. Data restructuring.
8. What is Software maintenance?
9. What is forward engineering?
10. What is reverse engineering?

Q.3 Answers the following questions in short:

[4*10=40]

1. What is code and data restructuring?
2. What is cost of maintenance?
3. Write different types of software maintenance methods.
4. Describe maintenance activities with the help of diagram.
5. What is the need of software maintenance?
6. Explain the term 'Restructuring' with its process.



8. What is reverse engineering? Explain it in detail.
9. Explain software maintenance in detail.
10. Explain preventive maintenance in detail.

