# QUESTION

## Unit 1

1. Explain the general architecture of a system with its components.
2. What are the characteristics of a system? Explain them in detail.
3. What is SDLC. Explain the phases of SDLC!

## Unit 2

4. What do you mean by emergent system properties? What are its types. Explain?
5. Define IS. Explain TPS, MIS, DSS in detail with example.
6. What do you mean by supporting process? List some of the supporting processes & explain them.

## Unit 3

7. What are the methodologies (approaches) for system development? Explain.
8. What do you mean by CASE tools? Explain about CASE tools with explain.
9. What do you mean by software measurement process? Explain Size oriented metric in detail.
10. Explain about function oriented metric in detail with an example.
11. What is DRE. Explain with example.
12. List out the factors the determines the quality of a system & also explain them?

Unit 4

13. What is requirement analysis. What are different requirement gathering techniques used in system development. Explain.
14. What is software requirement documents? Explain.

## Unit 5

15. What is DFD. Explain different symbols used in DFD with example. (Hotel reservation system, hospital reservation system, school reservation system, food reservation system)
16. Differentiate between logical & physical DFD with example.
17. Explain about decision table & structured English with examples.

## Unit 6

## QUESTION

18. Explain about data dictionary with an example.
19. Explain ER-Model with an example.
20. Why do you need normalization? what are different types of normalization.
21. Class, diagram, use case diagram, sequence diagram.

### Unit 7

22. What do you mean by quality assurance? How it can be implemented. Explain in detail.
23. What are the characteristics that defines the quality of a system?

### 24. Write short notes: -

a. Alpha testing vs Beta testing.
b. White testing vs Black Box testing.
c. Verification & validation.
d. Unit testing, integration testing & system testing.
e. System analyst.
f. Interviewing.
g. Questionaries.
h. Prototyping.
i. Cost-Benefit analysis.

QUESTION

# SAD

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## Unit 3

7.What are the methodologies (approaches) for system development. Explain.

8.What do you mean by CASE tools. Explain about CASE tools with examples.

9.What do mean by Software measurement process. Explain size-oriented metric in detail. (Numerical also ask)

10.Explain about function-oriented metric in detail with an example.

11.What is DRE. Explain with an example.

12.List out the factors that determines the quality of a system & also explain them?

## Unit 4

13.What is requirement analysis. What are different requirements gathering techniques used in system development. Explain.

14.What is software requirement document? Explain

## Unit 5

15.What is DFD. Explain different symbols used in DFD with an example. (Hotel Reservation, School, Food, ATM)

16.Different between logical and physical DFD with example.

QUESTION

17.Explain about decision table & structure English with example.

## Unit 6

18.Explain about data Dictionary with an example.

19.Explain E-R model with an example.

20.Why do you need normalization? What are different types of Normalization (Read from DBMS)

21.Class diagram, use case diagram, sequence diagram.

## Unit 7

22.What do you mean by quality assurance. How it can be implemented? Explain in detail.

23.What are the characteristics they define quality of a system.

## Unit 8

24.Explain of waterfall.

25.Explain of spiral model.

26.Explain of Iterative model.

27.Explain of Evolutionary.

## Short notes:

-Alpha testing vs Bata testing

-Whitebox testing vs Black Box testing

-Verification & Validation

-Unit testing, Integration testing & system testing.

-Feasibility & its types

-System analyst

-Interviewing

-Questionaries

-Prototyping

## QUESTION

-Cost-Benefit Analysis (self-study)