SYSTEM ANALYSIS AND DESIGN

MCQ QUESTIONS



AUTHOR BOOK

System Analysis And Design

MCQ Questions



Fundamentals of System Analysis and Design

Set-1

Q. 1 is an important factor of a management information system.

A) System

B) Data

C) Process

D) All

Q.2 Which of the following is/are the level(s) of documentation?

A) Documentation for management

B) Documentation for the user

C) Documentation for the data processing department

D) All of the above

Q.3 level supply information to the strategic tier for the use

Of top management.

A) Operational

B) Environmental

C) Competitive

D) Tactical

Q.4 In a DFD, external entities are represented by aA) RectangleB) EllipseC) Diamond-shaped boxD) Circle

Q.5 ... can be defined as data

That has been processed into a meaningful form to the recipient and is real or perceived value in current or prospective decisions.

- A) System
- B) Information
- C) Technology
- D) Service

Q.6 Use the new system at the same time as the old system to compare the Results. This is known as

- A) Procedure Writing
- B) Simultaneous processing
- C) Parallel Operation
- D) File Conversion

Q.7 The decision-making model was proposed by

- A) Harry Goode
- B) Herbert A Simon
- C) Recon Michal
- D) None of this

Q.8 A data flow can

A) Only emanate from an external entity

- B) Only terminate in an external entity
- C) May emanate and terminate in an external entity
- D) May either emanate or terminate in an external entity, but not both

Q. 9 can be defined as the most recent and perhaps the most A comprehensive technique for solving <u>computer</u> problems.

- A) System Analysis
- B) System Data
- C) System Procedure
- D) System Record

Q.10 SDLC stands for

- A) System Development Life Cycle
- B) Structure Design Life Cycle
- C) System Design Life Cycle
- D) Structure development Life Cycle

Answers:

- 1. A) System
- 2. D) All of the above
- 3. D) Tactical
- 4. A) Rectangle
- 5. B) Information
- 6. C) Parallel Operation
- 7. B) Herbert A. Simon
- 8. C) May emanate andentity
- 9. A) System Analysis
- 10. A) System Development Life Cycle

Read Next: Solved MCQ of System Analysis and Design Set-2

Set-3

- Q.1 A system in no more than an idea.
- A) Conceptual
- B) Logical
- C) Physical
- D) None
- Q.2 Design Phase consists of
- 1. Identify the functions to be performed
- 2. Design the input/output and file design
- 3. Defining basic parameters for system design
- A) 1 & 2
- B) 2 & 3
- C) 1 & 3
- D) 1, 2 & 3

Q.3 A context diagram

- A) Describes the context of a system
- B) is a DFD that gives an overview of the system
- C) is a detailed description of a system
- D) is not used in drawing a detailed DFD

Q. 4 HIPO stands for

A) Hierarchy input process output

- B) Hierarchy input plus output
- C) Hierarchy plus input, process output
- D) Hierarchy input-output Process

Q.5 Statement of scope and objectives, opportunities and performance criteria

- A) Problem definition
- B) System analysis
- C) System Design
- D) Documentation
- Q.6 Information can be categorized into
- 1. Environmental information
- 2. Competitive information
- 3. Government information
- 4. Internal information
- A) 1, 2 & 3
- B) 1, 2 & 4
- C) 2, 3 & 4
- D) 1, 3 & 4
- Q.7 The System Development process is also called.....
- A) System Development Life Cycle
- B) System Life Cycle
- C) Both A and B

D) System Process Cycle

Q.8 The output of the problem definition stage is

A) Master Development Plan

B) Terms of reference

C) Feasibility report

D) Final product

Q.9 Advantages of system flowcharts

A) Effective communication

B) Effective analysis

C) Queasier group or relationships

D) All A, B, C

Q.10 Based on the identification of objectives, input, output and file content, the vital document is called ...

A) System Definition

B) System Document

C) System Requirement Document

D) System Subject

Q.11 A context diagram is used

A) as the first step in developing a detailed DFD of a system

B) in the systems analysis of very complex systems

C) as an aid to system design

D) as an aid to the programmer

- Q.12 Which of the following is/are the sources for the project requests?
- A) Request from Department managers
- B) Request from senior executives
- C) Request from System Analyst
- D) All of the above
- Q.13 DDS stands for
- A) Data Systems
- B) Data Digital System
- C) Data Dictionary Systems
- D) Digital Data Service

Q.14 Phase is a time-consuming phase and yet a very crucial phase

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- A) Feasibility Study
- B) Requirement Phase
- C) Analysis Phase
- D) Testing Phase
- Q.15 A DFD is normally leveled as
- A) It is a good idea in design
- B) It is recommended by many experts
- C) It is easy to do it

D) It is easier to read and understand several smaller DFDs than one large DFD

Q.16 is responsible for all aspects of data processing, operations research, organization and method, system analysis, and design investments.

- A) Management Services Director
- B) Data Processing Manager
- C) Computer Manager
- D) Both B and C

Q.17 is a tabular method for describing the logic of the decisions.

- A) Decision tables
- B) Decision tree
- C) Decision Method
- D) Decision Data

Q.18 In system, the interaction between various subsystems cannot be defined with certainty

- A) Open System
- B) Closed System
- C) Deterministic System
- D) Probabilistic System

Q. 19 State True or False.

- 1. The term of reference is the final output of the Feasibility Study
- 2. The design specification report is the final output of the System Analysis

A) 1-true, 2-true

- B) 1-false, 2-true
- C) 1-true, 2-false
- D) 1-false, 2-false

Q.20 The key considerations involved in the feasibility analysis include

i) Economic ii) Technical iii) Behavioral iv) Personal

A) i, ii, iv

B) i, ii, iii

- C) ii, iii, iv
- D) All of the above

Answers

- 1. A) Conceptual
- 2. D) 1, 2 & 3
- 3. B) is a DFD that gives an overview of the system
- 4. A) Hierarchy input process output
- 5. A) Problem definition
- 6. B) 1, 2 & 4
- 7. A) System Development Life Cycle
- 8. B) Terms of reference
- 9. D) All A, B, C

10. B) System Document

11. A) as the first step ... DFD of a system

12. D) All of the above

13. C) Data Dictionary Systems

14. C) Analysis Phase

15. D) It is easier to read and understand several smaller DFDs than one

large DFD

- 16. A) Management Services Director
- 17. A) Decision tables
- 18. D) Probabilistic System
- 19. D) 1-false, 2-false
- 20. B) i, ii, iii

Read More MCQs on System Analysis and Design Fundamentals

- MCQ of System Analysis and Design with answer set-4
- Solved Objective Questions on SAD set-5
- MCQ of System Analysis and Design With Answer set-6

MCQ Questions System Development Life Cycle (SDLC)

Set-1

- 1) Which phase of the SDLC is information needs identified?
- A. Preliminary investigation
- B. System analysis
- C. System design
- D. system development
- 2) How many steps are in the systems development life cycle (SDLC)?
- A. 4
- B. 5
- C. 6
- D. 10

3) The actual programming of software code is done during the step in the SDLC.

- A. maintenance and evaluation
- B. design
- C. analysis
- D. development and documentation

4) In the preliminary investigation phase of the SDLC, which one of the following tasks would not be included?

- A. Briefly defining the problem
- B. suggesting alternative solutions
- C. Gathering the data
- D. Preparing a short report

5) The first step in the systems development life cycle(SDLC) is ...

- A. analysis
- B. design
- C. problem/opportunity identification
- D. development and documentation

6) Enhancements, upgrades, and bug fixes are done during the step in the SDLC.

- A. maintenance and evaluation
- B. problem/opportunity identification
- C. design
- D. development and documentation
- 7) The first task to complete in the design phase of the SDLC is to
- A. Design alternative systems
- B. Select the best design
- C. Examine hardware requirements
- D. Write a systems design report

8) Most modern software applications enable you to customize and automate various features using small custom-built "mini-programs" called

A. macros

B. code

C. routines

D. subroutines

9) The determines whether the project should go forward

A. feasibility assessment

B. Opportunity identification

C. System evaluation

D. program specification

10) Determining whether expected cost savings and other benefits will exceed the cost of developing an alternative system is related to

A. Technical feasibility

B. Economic feasibility

C. Organizational feasibility

D. operational feasibility

11) The organized process or set of steps that need to be followed to develop an information system is known as the

A. analytical cycle

B. design cycle

C. program specification

D. system development life cycle

12) Technical writers generally provide the for the new system.

- A. programs
- B. network
- C. analysis
- D. documentation

13) The approach conversion type simply involves abandoning the old system and using the new system

- A. direct
- B. pilot
- C. phased
- D. parallel

14) How many steps are in the program development life cycle(PDLC)?

- A. 4
- B. 5
- C. 6
- D. 10
- 15) design and implement database structures.
- A. programmers
- B. Project managers

C. Technical writers

D. Database administrators

16) The implementation approach that is the least risky would be the

- A. direct approach
- B. parallel approach
- C. phased approach
- D. pilot approach

17) The make or buy decision is associated with the step in the SDLC.

A. analysis

- B. design
- C. problem/opportunity identification
- D. development and documentation

18) spend most of their time in the beginning stages of the SDLC, talking with end-users, gathering information, documenting systems, and proposing solutions.

- A. System analysts
- B. Project managers
- C. Technical writers
- D. Database administrators

19) State whether the following statements are True or False.

i) A systems analyst uses the six-phase systems life-cycle to improve and

maintain information systems.

ii) During the preliminary investigation phase of the SDLC, you first suggest an alternative and then define the problem.

A. i-True, ii-True

- B. i-True, ii-False
- C. i-False, ii-True
- D. i-False, ii-False

20) In the analysis phase, the development of the occurs, which is a clear statement of the goals and objectives of the project.

A. documentation

- B. flowchart
- C. program specification
- D. design

Answers

1) A. preliminary investigation

2) C. 6

- 3) D. development and documentation
- 4) C. gathering the data
- 5) C. problem/opportunity identification
- 6) A. maintenance and evaluation
- 7) A. design alternative systems
- 8) C. routines

9) A. feasibility assessment

10) B. economic feasibility

11) D. system development life cycle

12) D. documentation

- 13) direct
- 14) B. 5
- 15) D. Database administrators

16) C. phased approach

- 17) B. design
- 18) A. system analyst
- 19) B. i-True, ii-False
- 20) C. program specification

Set-2

1) In this phase of the SDLC, new or alternative information systems are designed.

- A. Preliminary investigation
- B. System analysis

C. System design

D. system development

2) The information systems are considered to be evolved through different levels of the system.

A. One

B. Two

C. Three

D. Four

3) The final output of the..... stage of SDLC is in terms of reference.

- A. Problem definition
- B. Feasibility study
- C. System analysis

D. system development

4) To obtain financing for the analysis phase, the systems analyst must

- A. Prepare a preliminary investigation report
- B. Justify the expense of upgrading
- C. Consider abandoning the project
- D. Train users on the new system

5) State whether the following statements are true.

i) A conceptual model is no more than an idea.

ii) The Data Flow Diagram (DFD) and, Flow chart are the basic components of the logical models.

- A. i only
- B. ii only
- C. Both i and ii
- D. None of the above

- 6) The key considerations involved in the feasibility analysis is/are
- A. Economic
- B. Technical
- C. Behavioral
- D. All of the above

7) After designing alternative systems, the system analyst must

- A. Prepare a system design report
- B. Diagram the system
- C. Prepare a data flow diagram
- D. Select the best alternative

8) A system design necessarily includes an understanding of the flow of information, logical and processing, and input-output relationship.

- A. conceptual
- B. logical
- C. physical
- D. practical

9) In the feasibility study, the feasibility will only consider the cost/benefit analysis of the proposed project.A. economic

B. technicalC. behavioralD. logical

10) The first step of system development is to purchase or custom-design

- A. software
- B. a network
- C. hardware
- D. training materials

11) The system model can be tested and implemented, which consists of programs, data files, and documentation.

- A. conceptual
- B. logical
- C. physical
- D. practical

12) The fundamental activities involved in the system analysis are

- i) Definition of the overall system
- ii) Separation of the system into smaller and manageable parts.
- iii) finding programming errors in the existing system
- A. i and ii only
- B. ii and iii only
- C. i and iii only

D. All i, ii and iii

13) The old and new systems run side by side for some time when using the...... approach to implementation.

A. direct

- B. parallel
- C. phased
- D. pilot

14) In the..... stage of SDLC, training of the user staff, system documentation, and implementation is done.

- A. System development
- B. System implementation
- C. System analysis
- D. system development
- 15) Some of the tools that are available with the system analysis are
- i) Review of documentation
- ii) observation of the situation
- iii) conducting interviews
- iv) questionnaire administration
- A. i, ii and iii only
- B. ii, iii and iv only
- C. i, iii and iv only
- D. all i, ii, iii and iv

16) This implementation approach is preferred when there are many people in an organization performing similar operations.

A. direct

- B. parallel
- C. phased
- D. pilot

17) In the..... stage of SDLC, the statement of scope and objectives,

opportunities, and performance criteria are prepared.

- A. Problem definition
- B. Feasibility study
- C. System analysis
- D. system development

18) The final output of the..... phase of SDLC is a functional specification report of the existing system.

- A. Problem definition
- B. Feasibility study
- C. System analysis
- D. system development

19) State whether the following statements are True or False.

i) The final step in the preliminary investigation is to create an organization chart.

ii) Gathering data and information in the first step of systems analysis can be achieved through conducting interviews and making observations.

- A. i-True, ii-True
- B. i-True, ii-False
- C. i-False, ii-True
- D. i-False, ii-False

20) In the..... stage of SDLC, a refined and tuned system is prepared along with revised documentation and satisfied users.

- A. System development
- B. System implementation
- C. post-implementation maintenance and review
- D. system development

Answers

- 1) C. system design
- 2) C. Three
- 3) A. problem definition
- 4) A. Prepare a preliminary investigation report
- 5) C. Both i and ii
- 6) D. All of the above
- 7) D. Select the best alternative
- 8) B. logical
- 9) A. economic

- 10) A. software
- 11) C. physical
- 12) A. i and ii only
- 13) B. parallel
- 14) B. System implementation
- 15) D. All i, ii, iii and iv
- 16) D. pilot
- 17) A. problem definition
- 18) C. system analysis
- 19) C. i-False, ii-True
- 20) C. post-implementation maintenance and review

Read More MCQs on System Development Lifecycle

- Solved Objective Questions on SDLC set-3
- Multiple Choice Questions on SDLC set-4
- Top 20 Objective Questions on SDLC set-5

MCQ Questions on System Development Tools

Set-1

1) Which of the following shows levels of management and formal lines of authority?

- A. Organization chart
- B. Decision table
- C. pyramid diagram
- D. grid chart
- 2) External entities may be a
- A. source of input data only
- B. source of input data or destination of results
- C. destination of results only
- D. repository of data
- 3) Advantages of system flowcharts.....
- A. Effective communication
- B. Effective analysis
- C. Queasier's group or relationships
- D. All of the above

4) A list of questions used in the analysis is called a(n)

- A. Organization chart
- B. Interview guideline
- C. grid table
- D. checklist

5) By an external entity, we mean a

A. The unit outside the system being designed that can be controlled by an analyst.

B. The unit outside the system whose behavior is independent of the system is designed

C. A unit external to the system is designed

D. A unit that is not part of a DFD

6) A context diagram is used

- A. as the first step in developing a detailed DFD of a system
- B. in systems analysis of very complex systems
- C. as an aid to system design
- D. as an aid to the programmer

7) What type of analysis starts with the "big picture" and then breaks it down into smaller pieces?

- A. financial
- B. reverse
- C. top-down

D. executive

- 8) A data flow can
- A. Only a data store
- B. Only leave a data store.
- C. Enter or leave a data store
- D. Either enter or leave a data store, but not both
- 9) DDS stands for
- A. Data Definition Systems
- B. Data Digital System
- C. Data Dictionary Systems
- D. Digital Data Service

10) Which of the following is used to show the rules that apply to a decision when one or more conditions apply?

- A. System flowchart
- B. Decision table
- C. grid chart
- D. checklist
- 11) Data cannot flow between two data stores because
- A. It is not allowed in DFD
- B. A data store is a passive repository of data
- C. Data can get corrupted.

D. They will get merged

12) A DFD is normally leveled asA. It is a good idea in designB. It is recommended by many expertsC. It is easy to do itD. It is easier to read and understand several smaller DFDs than one large DFD

13) Which of the following tools shows the data or information flow within an information system?

- A. grid chart
- B. Decision table
- C. System flowchart
- D. Data flow diagram

14) defines the flow of the data through an organization or a company, or a series of tasks that may or may not represent computerized processing

- A. System process
- B. System flowchart
- C. System design
- D. Structured System

15) is a tabular method for describing the logic of the decisions.

- A. Decision tables
- B. Decision tree
- C. Decision Method
- D. Decision Data
- 16) Which of the following is not found in a data flow diagram?
- A. entities
- B. process
- C. offline storage
- D. file
- 17) A context diagram
- A. Describes the context of a system
- B. is a DFD, which gives an overview of the system
- C. is a detailed description of a system
- D. is not used in drawing a detailed DFD
- 18) CASE stands for
- A. Computer analysis and system engineering
- B. Computer-aided software engineering
- C. Computer-aided system engineering
- D. The computer analyzed system engineering
- 19) A rectangle in a DFD represents
- A. a process

- B. a data storeC. an external entityD. an input unit
- 20) HIPO stands for
- A. Hierarchy: input, process, output
- B. Hierarchy input plus output
- C. Hierarchy plus input process, output
- D. Hierarchy input-output process

Answers

- 1) A. Organization chart
- 2) B. source of input data or destination of results
- 3) D. All of the above
- 4) D. checklist
- 5) C. A unit external to the system is designed
- 6) A. as the first step in developing a detailed DFD of a system
- 7) C. top-down
- 8) C. Enter or leave a data store
- 9) C. Data Dictionary Systems
- 10) B. decision table
- 11) D. They will get merged

12) D. It is easier to read and understand several smaller DFDs than one large DFD

- 13) D. data flow diagram
- 14) B. System flowchart
- 15) A. Decision tables
- 16) C. offline storage
- 17) B. is a DFD that gives an overview of the system
- 18) B. Computer-aided software engineering
- 19) C. an external entity
- 20) A. Hierarchy input process output

Set-2

- 1) Which of the diagrams shows interactions between objects?
- A. Activity diagram
- B. Class diagram
- C. Sequence diagram
- D. Component diagrams

2) System design consists of a preliminary investigation and feasibility study, a detailed investigation consisting of...

i) fact-finding

- ii) data analysis and evaluation
- iii) estimating the costs and benefits
- iv) Preparation of system proposal
- A. i,ii and iii only

B. ii, iii and iv onlyC. i, iii and iv onlyA. All i, ii, iii and iv

3) is/are the advantages of using a system flowchart.

- A. Communication
- B. Queasier group or relationships
- C. Effective analysis
- D. All of the above
- 4) A statechart diagram describes ...
- A. Attributes of objects
- B. Nodes of the system
- C. Operations executed on a thread
- D. Events triggered by an object
- 5) Which of the following tools is not used to organize the system projects
- A. System flowchart
- B. Decision Tables
- C. System Trees
- D. Organization chart
- 6) is a tabular method for describing the logic of the decisions.
- A. Decision tables
- B. System tables

C. Organization chart

- D. Logical tables
- 7) The sequence diagram models....
- A. The order in which the class diagram is constructed
- B. How objects communicate
- C. The relationship between states
- D. The components of the system

8) defines the flow of the data through an organization or a company, or a series of tasks that may not represent computerized processing.

- A. System flowchart
- **B.** Decision Tables
- C. System Trees
- D. Organization chart
- 9) The four parts of the decision tables are...
- i) condition stub
- ii) decision stub
- iii) condition entry
- iv) action stub
- v) action entry
- A. i, ii, iii and iv only
- B. ii, iii, iv and v only
- C. i, iii, iv and v only

D. i, ii, iv and v only

10) The activity diagram...

A. focuses on flows driven by internal processing

B. models the external events, simulating one object

C. focuses on the transitions between states of a particular object

D. models the interaction between objects

11) symbol in the system flowchart represents a major processing function.

A. Rectangle

B. Squire

C. Circle

D. Triangle

12)consisting of a list of all the conditions that are to be taken into account.

A. Condition Stub

B. Condition Entry

C. Action Stub

D. Action Entry

13) The deployment diagram shows....

A. Objects of a system

B. Distribution of components on the nodes in a system

- C. Functions of a system
- D. distribution of nodes
- 14) symbol in the system flowchart indicates the screen output.
- A. Skewed Rectangle
- B. Rounded Rectangle
- C. Triangle
- D. Rounded Triangle

15) are a tabular representation of the combination of the conditions that are to be satisfied for each particular action.

- A. Condition Stubs
- **B.** Condition Entries
- C. Action Stubs
- D. Action Entries
- 16) Unified process is a software development methodology which is...
- A. Use case-driven
- B. component-driven
- C. related to extreme programming
- D. none in only one iteration

17) A system flowchart mainly consists of...

i) the source from which input data is prepared and the medium or devices used.

ii) the processing steps or sequence of operations involved.

- A. i-True, ii-False
- B. i-False, ii-True
- C. i-True, ii-True
- D. i-False, ii-False

18) indicates the appropriate actions that are to be taken when a condition is satisfied.

- A. Condition Stubs
- B. Condition Entries
- C. Action Stubs
- D. Action Entries
- 19) An interaction Diagram should be associated with....
- A. A use case
- B. A state transition diagram
- C. An activity diagram
- D. a CRC card

20) the intermediary and final outputs prepared, and the medium and devices used for their storage.

- A. System flowchart
- **B.** Decision Tables
- C. Decision Trees
- D. Organization chart

Answers

- 1) C. Sequence diagram
- 2) A. All i, ii, iii and iv
- 3) D. All of the above
- 4) D. events triggered by an object
- 5) C. System Trees
- 6) A. Decision tables
- 7) B. How objects communicate
- 8) A. System flowchart
- 9) C. i, iii, iv, and v only
- 10) A. focuses on flows driven by internal processing
- 11) A. Rectangle
- 12) A. Condition Stub
- 13) B. Distribution of components on the nodes in a system
- 14) A. Skewed Rectangle
- 15) B. Condition Entries
- 16) A. Use case driven
- 17) C. i-True, ii-True
- 18) D. Action Entries
- 19) D. a CRC card
- 20) A. System flowchart

Read More MCQs on System Development Tools

- Objective Questions on System Development Tools set-3
- Interview Questions on System Development Tools set-4

Thank You!