SYSTEM ANALYSIS AND DESIGN MCQ Question Bank

1. The primary tool u	ised in structured design is	a:	
a). module	b). Structure chart	c). Data-flow diagram	m d). program flowchart.
2 system co	onsists of programs, data f	iles and documentation	
a). Conceptual	b). Logical	c). Physical	d). None of the above
3. The main ingredie	nt of the report documenting	ng the is the cost bene	fit analysis.
a). System Analysis	b). Feasibility Study	c). System Analyst	d). System Design
4. The organized proknown as	cess or set of steps that nee	eds to be followed to devel	op an information system is
a). Analytical cycle cycle	b). Design cycle c). P	Program specification d). system development life
5. Which of the follo	wing is not a fact-finding t	technique?	
a). Third party enqu	uiry b). Interview c).	Questionnaire	d). Record reviews
6. What are structure	d analysis tools?		
a). Data Flow Diagra	ms b). Data Dictionary	c). Decision Trees	d). All of these
7. A rectangle in a D	OFD represents		
a). A process b). A data store	c). An external enti	ty d). An input unit
8. SDLC stands for			
a) System Developm None	nent Life Cycle b) Struct	ure Design Life Cycle c) S	System Design Life Cycle d).
9. HIPO stand for			
a). Hierarchy input	process output	b). Hierarchy input plus ou	ıtput
c). Hierarchy plus in	out process output d)	. Hierarchy input output Pr	ocess

10 Phase is a time consuming phase and yet a very crucial phase
a). Feasibility Study b). Requirement Phase c). Analysis Phase d). Testing Phase
11 is a tabular method for describing the logic of the decisions to be taken.
a). Decision tables b). Decision tree c). Decision Method d). Decision Data
12 means coordinated effort, to communicate the information of the system in
written form.
a). System Documentation b). System Storage c). System Record d). System Share
13 includes review of the existing procedures and information flow.
a). Feasibility Study b). Feasibility report c). System Design d). System analysis
14. In system the interaction between various subsystems cannot be defined with
certainty
a). Open System b). Closed System c). Deterministic System d). Probabilistic System
15. Development costs for a computer based information system include/s
a). Salaries of the system analysis b). Cost of converting and preparing data
c). Cost of testing and documenting d). All A, B, C
16. Which of the following is/are major step/s of system design?
a). Specification of system output b). Development of system flowchart
c). Development of program specifications d). All A, B, C
17 refers to the collection of information pertinent to systems project.
a). Data gathering b). Data Exporting
c). Data Embedding d). Data importing
18. The key considerations involved in the feasibility analysis is include
a). Economical b). Technical
c). Behavioral d). All
19. DSS stands for
a). Design Support Systems b). Data Digital System c). Data Systems Service d). Digital System Service

20. Which of the following is not a type of system tests?			
a). Program Testing b). System Testing			
c). System Documentation d). Evaluation Process			
21. System Study involves			
a) Study of an existing system b) documenting the existing system.			
c) identifying current deficiencies and establishing new goals d) All of the above			
22. The step-by-step instructions that solve a problem are called			
a) An algorithm b). A list			
c). A plan d) A sequential structure			
23. A problem's will answer the question, "What information will the computer need to know in order to either print or display the output times?"			
a). Input b). Output			
c). Processing d). Purpose			
24. Documentation is prepared			
a). at every stage b). at system design			
c). at system analysis d). at system development			
25. System Implementation Phase entails			
a). System check outs b). Pilot run			
c). Parallel runs d). All of the above			
26. Data Definition Language (DDL)			
a). describes how data are structured in the data base			
b). specifies for the DBMS what is required; the techniques used to process data			
determine how data must be structured to produce the user's view			
d). All of the above			
27. In phase 1 of the system development life cycle, which of the following aspects are usually analyzed?			

a).	outputs	b).	input (transac	ctions)		
c).	controls	d).	All of the ab	ove		
	-		•	at the san	ne time	for a specified period, the system
imple	mentation app	roach used	is			
a).	pilot	b).	phased			
c).	parallel	d).	direct			
29. De	ecision tree us	es				
a).	pictorial de	pictation of	f alternate cond	itions	b).	nodes and branches
c).	consequenc	es of vario	us depicted alte	rnates	d).	All of the above
30. Pr	oblem analysi	s is done d	uring			
a).	system desi	gn phase	b).syste	ems analy	sis pha	se
c).	before syste	em test	d). All o	of the above	/e	
31. To	p-down progr	ramming is				
a).	a group of r	elated field	ls			
b).	a map of the	e programn	ner's view of the	e data		
c). from	an approac the highest le		-	le is first	tested 1	then program modules are added
d).	a series or g	group of co	mponents that p	erform o	ne or mo	ore operations of a more complex
systen	n					
32. A	decision table	e facilitates	conditions to b	e related	to	
a).	actions	b).	programs			
c).	tables	d).	operation			
33. Oı	n the feasibilit	y committe	e, department i	representa	tives se	rve as:
a).	direct users	of the new	system	b).	liaison	n to their departments
c).	ready sourc	es of infor	nation	d).	All of	the above
34. A	is an o	utline of a	process that kee	eps develo	p succe	ssful information systems
a).	System Dev	velopment	Life Cycle	b).	CASE	E tool

c). Phased Conversion d). Success Factors
35. The set of. instructions for how to tie a bow is an example of theStructure.
a). Control b). Repetition
c). Selection d). Sequence
36. Which of the following appropriately explains the desirable characteristic of good system design?
a). Modular approach b). Proper documentation
c). Conversion d). Long discussions
37. The rule(s) to follow in constructing decision tables is (are):
a). a decision should be given a name
b). the logic of the table is independent of the sequence in which conditions rules are written, but the action takes place in the order is which the events occur.
c). standardized language must be used consistently.
d). All of the above
38. Which are the tools not used for System Analysis
a). System - test data b). Decision table
c). Data Flow Diagram d). Flowcharts
39. Acceptance testing is
a). running the system with line data by the actual user
b). making sure that the new programs do in fact process certain transactions according to Specifications
c). is checking the logic of one or more programs in the candidate systems
d). None.
40. The symbol is used in a flowchart to represent a step that gets information from the user.
a). Input/Output b). Process
c). Selection/repetition d). Start/Stop
41. The symbol is used in a flowchart to represent a calculation task.

a).	Input	b).	Outp	put	
c).	Process	d).	Start		
42. A f	feasibility docum	nent sho	ould con	ntain all of the following except:	
a).	project name		b).	problem descriptions	
c).	feasible alterna	itive	d).	data-flow diagrams	
43. Wł	nich of the follow	ving is	not a ch	naracteristic of a system	
a).	operates for so	me pur	pose	b). has homogeneous components	
c).	has interacting	compo	onents	d). operates within a boundary	
44. A	group of related	fields,	is know	vn as	
a).	tuple b	o).	scher	ma	
c).	records d	d).	file		
45. A I	Decision table				
a).	represents the i	informa	ation flo	ow	
b). documents rules, that select one or more actions, based on one or more conditions, from a set of possible conditions.					
			it select	one or more actions, based on one or more conditions, from a	
		ons.			
set of j	possible condition	o ns. e pictu	re of the		
set of] c). d).	possible condition gets an accurat	ons. e pictu sion pa	re of the	e system	
set of] c). d).	gets an accurate shows the deci-	ons. e pictu sion pa	re of the	e system	
set of 1 c). d). 46. To	gets an accurate shows the decirent periods and accurate shows the decirent is the state of the	e pictusion pass more	re of the	e system ed in	
set of] c). d). 46. To a). c).	gets an accurate shows the decirent p Management is day-to-day ope	e pictusion pass more	re of the other interesters b).	e system ed in strategic decisions	
set of] c). d). 46. To a). c).	gets an accurate shows the deciral p Management is day-to-day ope tactical decision it testing is	e pictusion pass more erations	interester b).	e system ed in strategic decisions	
set of j c). d). 46. Toj a). c). 47. Un a). b).	possible condition gets an accurate shows the decision p Management is day-to-day ope tactical decision it testing is running the systems.	e pictusion passion passion passion passion passions pass	interested b). d).	eed in strategic decisions both b and c	
set of j c). d). 46. Toj a). c). 47. Un a). b).	gets an accurate shows the decirate p Management is day-to-day ope tactical decision it testing is running the systemaking sure the ications	e pictusion pass more crations	interester b). d). ith line onew programs.	ed in strategic decisions both b and c data by the actual user	
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a). c	an only be accessed serially b). are meant for backup
c). c	annot be transformed to a disk file d). None
49. A sys	tem analyst designs a new system by
a). io	dentifying sub systems and the interfaces between sub systems
b). a	dopting a developed system to the present environment
c). d	leveloping the system as a large, single unit
d). N	None.
50. Cost-	Benefit analysis
a). e	evaluates the tangible and non-tangible factors
b). c	compares the cost, with the benefits, of introducing a computer-based system
c). e	estimates the hardware and software costs
d). A	All of the above
51. Which	h of the following is (are) the characteristic(s) of a system?
a). o	organization b). Interaction
c). In	nterdependence d). All of the above
52. A gra	phic representation of an information system is called
a). fl	low chart b). pictogram
c). d	lata flow diagram d). histogram
53. The D	Data flow diagram (DFD) shows;
a). th	he flow of data b). the processes
c). th	he areas where they are stored. d). All of the above
54. In dat	ta-flow diagrams, an originator or receiver of the data is usually designated by
a). a	circle b). an arrow
c). a	a square box d). a rectangle
55. Data	dictionary contains detail of
a). d	lata structures b). data flows c). data stores d). All of the above

56. A s	square symbols					
a).	defines a source or destination of system data					
b).	identifies data flow					
c).	represents a process that transforms incoming data flow(s) into outgoing data flows					
d).). is a data store-data at rest, or a temporary repository of data					
57. Du	ring system study, data can be collected through					
a).	questionnaires b). interviews c). on-site observations d). All of the above	e				
58. The	e person communicating with the manager to identify information needs is the					
a).	executive vice-president b). vice- president of information system					
c).	programmer d). system analyst					
59. Th	he systems have been classified in different ways					
a).	physical or abstract b). open or closed					
c).	man-made information system d). All of the above					
60. Sys	stem Specifications are used to					
a).	describe system flows b). get an accurate picture of the system					
c).	avoids ambiguity d). All of the above					
61. Which of the following symbols is (are) not the Data Flow Diagram (DFD):						
a).	a square b). an open rectangle					
c).	a circle d). a triangle					
62. The	the first step in the problem-solving process is to					
a).	Plan the algorithm b). Analyze the problem					
c).	Desk-check the algorithm d). Evaluate and modify (if necessary) the program					
63. HII	PO					
a). is a forms-driven technique in which standard forms are used to document the information						
b).	consists of a hierarchy chart and an associated set of input/process/ output charts					
c).	captures the essence of top down decomposition.					

d). All of the above
64. Which of the following activities, does not belong to the Implementation phase of the SDLC?
a). File conversion b). Program testing
c). User training d). None.
65. During what phase, the requirement analysis is performed?
a). system design phase b). system development phase
c). system analysis phase d). system investigation phase
66. The requirements report includes
a). a hierarchy chart showing the top-level modules
b). a list of alternative solutions considered
c). a data flow diagram describing the proposed new system.
d). None.
67. During the system study, analysts determine manager's information needs by
a). conducting tours of a nearby computer center
b). asking questions
c). showing samples of computer reports
d). teaching short courses in programming languages
68. The first step in systems Development Life Cycle is
a). database design b). system design
c). preliminary investigation and analysis d). graphical user interface
69. A system investigation may result from
a). an analysis investigation b). a scheduled systems reviewed
c). a manager's formal request d). All of the above
70. The feasibilities studied in preliminary investigation is (are):
a). technical feasibility b). economic feasibility
c). operational feasibility d). All of the above

71) is an important factor of management information system.
A) System B) Data C) Process D) All
72)level supply information to strategic tier for the use of top management. A) Operational B) Environmental C) Competitive D) Tactical
73). In a DFD external entities are represented by a
A) Rectangle B) Ellipse C) Diamond shaped box D) Circle
74). After the design phase the document prepared is known as
A) system specification B) performance specification C) design specification D) None of these
75).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
76)can be defined as most recent and perhaps the most comprehensive technique for solving computer problems. A) System Analysis B) System Data C) System Procedure D) System Record
77). The data Flow Diagram is the basic component of system
A) Conceptual B) Logical C) Physical D) None of the above
78) 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
79) gives defining the flow of the data through and organization or a company or series of
tasks that may or may not represent computerized processing. A) System process B) System
flowchart C) System design D) Structured System
80). 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
01) A land and a final fi
81). Advantages of system flowcharts

82) is a tabular method for describing the logic of the decisions to be taken. A) Decision tables B) Decision tree C) Decision Method D) Decision Data
83). Decision tree uses A. pictorial depictation of alternate conditions B. nodes and branches C. consequences of various depicted alternates D. All of the above
84). Problem analysis is done during
A. system design phase B. systems analysis phase C. before system test D. All of the above
85). A is an outline of a process that keeps develop successful information systems
A. System Development Life Cycle B. CASE tool C. Phased Conversion D. Success Factors
86). An appraisal, of a system's performance after it has been installed, is called system
A. planning B. review C. maintenance D. batch Processing
87). An example of a hierarchical data structure is A. Array B. Linked list C. Tree D. All of the above
88). Which of the following is not a characteristic of good test data
A. users do not participate at this preliminary stage B. should be comprehensive C. every statement
should be executed D. All of the above
89.)In the system concepts, term Integration
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- a) after requirements are determined b) before requirements are determined c) simultaneously with requirements determination d) independent of requirements determination
- 93). The role of a system analyst drawing up a requirements specification is similar to
- a) architect designing a building b) a structural engineer designing a building c) a contractor constructing a building d) the workers who construct a building
- 94). A feasibility study is carried out a) after final requirements specifications are drawn up b) during the period when requirements specifications are drawn up c) before the final requirements specifications are drawn up d) at any time
- 95). The main objective of feasibility study is
- a) to assess whether it is possible to meet the requirements specifications
- b) to assess if it is possible to meet the requirements specified subject to constraints of budget, human resource and hardware
- c) to assist the management in implementing the desired system
- d) to remove bottlenecks in implementing the desired system
- 96). It is necessary to carry out a feasibility study as
- a) top management cannot ensure that a project is feasible before calling a system analyst
- b) top management is not sure what they want from the system
- c) even though top management is in favour of the system, technology may not be mature for implementation
- d) all organizations do it
- 97). Feasibility study is carried out by
- a) managers of the organization
- b) system analyst in consultation with managers of the organization
- c) users of the proposed system
- d) systems designers in consultation with the prospective users of the system
- 98).Initial requirements specification is
- a) not changed till the end of the project
- b)continuously changed during project implementation

c) only a rough indication of the requirement
d) changed and finalized after feasibility study
99).Final specifications are drawn up by
a) system analyst in consultation with the management of the organization
b) the managers of user organization
c) system analyst in consultation with programmers
d) system designers along with users
100). The final specifications are arrived at
a) after feasibility study b) during feasibility study
c) just before implementation phase d) when the system is being designed
101) Hardware study is carried out
a) after the final system is specified b) at the requirements specification stage
c) before the requirements are specified d) whenever management decides it is necessary
102). The primary objective of system design is to
a) design the programs, databases and test plan b) design only user interfaces
c) implement the system d) find out how the system will perform
103).System evaluation is carried out
a) after the system has been operational for a reasonable time b) during system implementation
c) whenever managers of user organization want it d) whenever operational staff want it
104).The main objective of system evaluation is
a) to see whether the system met specification b) to improve the system based on operational
experience for a period
c) to remove bugs in the programs d) to asses the efficiency of the system
105).Systems are modified whenever
a) user's requirements change b) new computers are introduced in the market

c) new software tools become available in the market d) other similar organization modify these system
106).Programmers use to organize and summarize the results of their problem analysis. A. Flowcharts B. Input charts C. HIPO D. Output charts
107). Changes made periodically to a system, after its implementation, is known as system A. Analysis B. design C. development D. maintenance
108). The first step in systems Development Life Cycle is
A. database design B. system design
C. preliminary investigation and analysis D. graphical user interface
109). Graphic representation of the control logic of processing functions or modules representing a system, is known as:
A. Structured analysis B. Structured chart C. Structured English D. System Flow chart
110). Difference between Decision - Tables and Decision Trees is (are)
A. value to end user B. form of representation
C. one shows the logic while other shows the process D. All of the above
111).Coding and testing are done In a
A. top-down manner B. bottom-up manner
C. ad hoc manner D. cross sectional manner
112).The first step in the problem-solving process is to
A. Plan the algorithm B. Analyze the problem
C. Desk-check the algorithm D. Evaluate and modify (if necessary) the program
113).All of the following tools are used for process descriptions except:
A. structured english B. decision tables C. pseudocode D. data dictionaries
114).System design aid should primarily
A. help analyse both data and activities B. help in documentation
C. help in programming D. generate code
115).Mistakes made in the system analysis stage show up in :

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A. implementation B. system design C. system developments D. All of the above