Computer Applications

- 1. In c the key word used to transfer control from function back to the main program is
 - a) Switch
 - b) Break
 - c) Return
 - d) Goto
- 2. In SQL how do you select a column named "Roll No" from a table named Student.
 - a) SELECT Student.RollNo
 - b) SELECT RollNo FROM Student
 - c) Either A or B can be used
 - d) None of these
- 3. Database applications were built directly on top of file system to overcome the following drawbacks of using file systems
 - a) Data redundancy and inconsistency
 - b) Difficulty in accessing data
 - c) Data isolation
 - d) a, b and c
- 4. For a complete graph with N vertices, the total number of spanning trees is given by
 - a) $N^{(N-2)}$
 - b) $2N^{(N-1)}$
 - c) $N^{(N-1)}$
 - d) none of these
- 5. The NAND "RS" flip flop sets the output (drives out "1") when the inputs are
 - a) R=1, S=1
 - b) R=0, S=0
 - c) R=0, S=1
 - d) R=1, S=0
- 6. The most commonly used code for processing positive and negative binary numbers
 - a) Gray code
 - b) 2421 code
 - c) 2's complement
 - d) BCD code
- 7. A hash function f defined as f(key) = key mod 7 with linear probing used to resolve collisions. Insert the keys 37,39,72,48,98 and 11 into the table indexed from 0 to 6. What will be the location of 11?
 - a) 4
 - b) 5
 - c) 6
 - d) 7
- 8. If number of keys of any node in B-tree of order m becomes m, then
 - a) Split operation is applied
 - b) Merge operation is applied
 - c) No such operation is required
 - d) Both merge and split are applied

b)	compiler linker
	none of above
source called a) b) c)	aring compilation which of the following analyzer reads the character in the program and groups them into logically cohesive sequence of characters tokens syntax analysis lexical analysis semantic analysis none of above
11 Pa	ging technique which requires all the pages of the job to be in the memory
a) b) c)	demand paging simple paged allocation technique
a) b) c)	
13. In	electronic mail, which of the following protocols allows the transfer of multimedia messages?
a)b)c)d)	POP3
14. In	a hash table the dictionary operations require
	O(1) time on average O(n) time on average
c)	
15. W	hich one of the following is false
a) b) c) d)	Finite automation has finite memory A regular expression is built using four Kleene operators The conversion from NFA to DFA is the subset construction
16. Cc	ensider the grammar $S \rightarrow SS \mid SSS \mid x$. How many derivation trees are there for xxxx?
a) b)	
c)	10
d)	None of these
17. In	raster displays picture definition is stored in a memory called

9. Which system program resolves all the address references in the program

a) loader

	b)	frame buffer
		register buffer
	d)	both a and b
18	Ref	reshing in raster-scan displays is normally carried out at the rate of
10.	a)	30 Hz
		60 Hz
	-	90 Hz
		120 Hz
19.		data structures have the strongest height guarantee?
	a)	B-tree of order 3
	-	B-tree of order 5
	- 23	B+ tree of order 3 2-3 tree
	u)	2-3 tiee
20.	The	e technique that does not use recursion
		divide and conquer
		dynamic programming
	100	Both a and b
	a)	none of these
21.	The	e total number of comparisons made in quick sort for sorting a file of size n, is
		$O(\log n)$
		O(n)
		$O(n \log n)$
	d)	None of the above
22.	Wh	ich of the following algorithm design technique is used in the quick sort algorithm?
		Dynamic programming
		Backtracking
		Divide and Conquer
	d)	Greedy method
23.		is not required in Software Requirement Specifications (SRS) document?
	a)	Functional Requirements and Non-Functional Requirements
	b)	Implementation goals
	c)	Algorithms for Software Implementation None of these
	d)	None of these
24.	In a	software life cycle structural and behavioral modeling comes under
	a)	Requirements Capture
	b)	Design
	c)	Implementation
	d)	Maintenance
	-)	
25.	Opc	code is a machine instruction obtained from decoding instruction stored in
		Stack register
		Instruction register

a) refresh buffer

	c)	Address register
	d)	None of these
26.		is a type of microprocessor with limited set of instructions
		RISC
	*	CISC
		ALU
		CPU
	u)	CI O
27.		enables distributed computing among networked computers on different
pla		ms so that they together perform same as a single power full machine
	-	Parallel virtual machine
		Distributed virtual machine
		Heterogeneous virtual machine All of these
	u)	All of these
28.	An	nobile node needs a to participate in a multicast group
	a)	forward tunnel
	-	reverse tunnel
		IP-in-IP tunnel
	d)	none
29.	Ag	good place for segmenting the connection between mobile host and correspondent host is at the
		agent.
	a)	home
	b)	foreign
		either home or foreign
	d)	none
30.	Wh	nich of the following is not a data mining method?
		Dependency analysis.
		A priori algorithms.
		Classification and prediction.
	d)	Data description.
31.	On	e of the most frequently used data mining algorithms is:
	a)	Decision trees.
	b)	Outlier analysis.
		Cluster analysis.
	d)	Evolution analysis.
32.	In U	UNIX works as a command interpreter.
	a)	Kernel
	-	Vi editor
		Shell
	d)	None of these
33.	The	e separation of compiler into lexical analysis and parsing phase leads to

a) Increase in design complexity

		Increase in time complexity Both A and C
34.		ich normal form is considered adequate for relational database design
		2NF
		3NF
		4NF
	a)	None of these
35.	Wh	ich of the following is hardware interrupts?
	a)	RST7.5
		INTR
		TRAP
	d)	All of these
36.	Ker	beros is an encryption-based system that uses
	a)	Secret key encryption
		Public key encryption
		Data key encryption
	d)	None of these
37.	Art	ificial intelligence uses to represent knowledge
	a)	Facts
	b)	Symbols
		Facts and Symbols
	d)	None of these
38.		is an AI programming language that solves a problem with symbolic logic.
	a)	JAVA
	b)	PROLOG
	c)	MATLAB
	d)	All of these
39.	In	, each packet is treated independently of all others.
		Circuit switching
	b)	Datagram switching
	c)	Frame switching
	d)	None of the above
40.		are used for cellular phone, satellite, and wireless LAN communications.
	a)	Radio waves
	b)	Infrared waves
	c)	Microwaves
	d)	none of the above

b) Decrease in time complexity

Computer Application

Key

Question No.	Correct
	Answer
1	C
2	В
3	D
4	A
5	D
6	C
7	В
8	A
9	C
10	В
11	A
12	A
13	D
14	A
15	В
16	C
17	D
18	В
19	В
20	В
21	C
22	C
23	C
24	В
25	В
26	A
27	A
28	В
29	В
30	В
31	A
32	C
33	В
34	В
35	D
36	A
37	C
38	В
39	В
40	С