- 1. In SQL which of the following from a database? remove a user-defined object commands is mainly used to
- (1) Remove
- (2) Drop
- (3) Delete
- (4) Erase
- (5) Rollback
- 'n development life cycle? does not belong to the software Which of the following phases
- (1) Testing
- (2) Maintenance
- (3) Marketing
- (4) Coding
- (5) None of these
- Consider the following encryption alogorithms?
- Data Encryption Standard
- Ξ Advanced Encryption Standard
- Ħ, key) utilised by them. Rivest Shamir Adleman (RSA) lography (public-key of private rithms with the type of cryprectly matches the given algo-Choose the option that cor-
- (1) DES RSA: public-key & AES: private-key;
- (2) AES DES: public-key & RSA: private-key;
- (3) DES AES: public-key & RSA: private-key;
- (4) RSA: AES: public-key private-key; DES
- (5) AES: private-key; RSA: public-key DES
- 4. The full form of ISR is (1) Information Service Re-
- (3) Interrupt Service Routine (2) Information Select Routine

- (4) Information Service Routine
- (5) None of these
- Ģ In Oracle, which data type is used to store unstructured binary data?
- (1) INT
- (2) VARCHAR
- (3) DOUBLE
- (4) BLOB
- (5) None of these
- <u>о</u> defines the language and syn-Which layer of the OSI model tax for programs?
- (1) Data link layer
- (2) Presentation layer
- (3) Application layer
- (4) Session layer
- (5) Transport layer
- .7 under the UDP and TCP are categorised OSI model. layer of the
- (1) physical
- (2) data link
- (3) application
- (4) transport

(5) network

- œ Which of the following topolterconnection of resources? ogies mainly use hub for in-
- (1) Ring topology
- (2) Bus topology

(3) Tree topology

- (4) Star topology
- (5) Mesh topology
- 9 the abbreviation 'ACID' stands failures.etc. The alphabet 'A' in in the event of errors, power ed to guarantee validity even 'ACID' is a set of properties of database transactions intend-

- (1) application
- (2) accessibility
- (3) atomicity
- (4) Advanced
- (5) Automatic
- 10. Unique IP address is assigned following layer? to each host in which of the
- (1) Network Layer
- (2) Data Link Layer
- (3) Transport Layer
- (4) Application Layer (5) physical layer
- 11. What is the default value for Boolean variable in an array? (2) Zero
- (1) Null
- (3) False (4) True
- (5) Bit
- 12. Which of the following library nate two strings in a C profunction is used to concate-(2) strlwr
- (1) strcpy
- (4) streat
- (5) strcmp

(3) strcmp

- 13. Which of the following funcory location to another in C++? tions is used to copy one mem-
- (1) memmove
- (2) memchr
- (3) memcmp
- (4) memcpy
- (5) memset
- 14. tem? Which of the following is not true regarding an OLTP sys-
- (1) OLTP is generally regarded as unsuitable for warehousing data
- (2) OLTP systems an be repossis. cal data of business analyitories of facts and histori-

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- (3) The purpose of an OLTP system is to run day-to-day op-
- (4) The data model of an OLTP system is normalised.
- (5) OLTP offers large amounts of raw data.
- 15. In which of the following joins, both tables? when variable matches from the result is generated only
- (1) Inner join
- (2) Cross join
- (3) Equi-join
- (4) Natural join
- (5) Outer join
- 16 the distance it travels is called The weakening of a signal over
- (1) attenuation
- (2) modulation
- (3) demodulation
- (4) conditioning
- (5) transduction
- 17. What is the command used to without deleting it? access top element of a stack
- (2) is Empty
- (3) top Element
- (4) is full
- (5) pop
- 18. in a data warehouse system? How many layers are present
- (1)8
- (5) 5

(3)9

- (4)6
- 19. If h is any hashing function lar key x is n<=m,, the expected number of to a table of size M, where collisions involving a particuand is used to hash n keys in
- (1) less than 1
- (2) less than n
- (3) less than m
- (4) less than n/2
- (5) greater than n
- 20. Which of the following SQL statement is used to changed data in a database table?

- (1) UPDATE
- (2) INSERT
- (3) CREATE
- (4) TRUNCATE
- TCP is a (5) None of these oriented pro-

21.

- tocol. (1) Data
- (2) Network
- (3) Sessions
- (4) Connection
- 22. Which of the following algoshortest paths in a Directed rithm can be used to efficient-(5) Application ly calculate single source
- graph? (1) Djikstra
- (2) Bellman-Ford
- (3) Topological Sort
- (4) Strongly Connected Component
- (5) None of these
- 23. In SQL, which command is used to change data in a data table?
- (1) UPDATE
- (2) INSERT
- (3) BROWSE
- (5) None of these (4) APPEND
- 24. The language used in applicafrom the DBMS is referred to tion programs to request data
- (1) DML
- (2) DDL
- (3) Query Language
- (4) DCL
- (5) None of these
- 25. Which of the following protohead and high speed? col is connectionless, low over-
- (1) ARP
- (2) TCP and ARP
- (3) ICMP
- (4) UDP
- (5) TCP

- er than a single input. set or "batch" of inputs, rath series of programs each on a is the execution of a
- (1) Bath gathering
- (2) Bath processing
- (3) Batch channelling
- (4) Batch networking
- (5) None of these
- 27. Which one of the following is ronment? used as a synchronization tool in a multiprogramming envi
- (1) Semaphore
- (2) Address bus
- (3) ICs
- (4) Logic gate
- (5) None of these
- 28. dress of 172.16.66.0/21? ber of a host with an IP ad-What is the sub-network num-
- (1) 172.16.64.0
- (2) 172.16.48.0
- (3) 172.16.36.0
- (4) 172.16.0.0
- (5) None of these
- 29. Which type of members of a to a derived class? base class is never accessible
- (1) Public
- (2) Private
- (3) Protected
- (4) Unique
- (5) All of the above
- **30**. When you start up the comufacturer and data are disputer the bootup storage at played on the monitor is called which the BIOS versions, man
- (1) Bootstrap
- (2) Power on self test (POST)
- (3) System configuration
- (4) Kernel loading
- (5) None of these
- 31. another record type. related to only one record of in a particular record type is means that one record
- (1) One to one relationship (2) One to many relationship

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- (4) Many to many relationship (3) Many to one relationship
- (5) None of these
- 32. is called key that is unique. Such a Key there is at least one set of a different records. For every file used to differentiate among ated with each record which is In files, there is a key associ-
- (1) Unique key
- (2) Prime attribute
- (3) Index key
- (4) Primary key
- (5) Null key
- 33 other purposes. dress but can also be used for email destinations to IP admapping host names and is primarily used for
- (1) TCP (Transfer Control Protocol)
- (2) DNS (Domain Name System)
- (3) SHA (Secure hash Algorithm)
- (4) Simle Network management Protocol (SNMP)
- (5) None of these
- 34. Override is a method.
- (1) for an operation that reod for the same operation. places an inherited meth-
- (2) for a data that replaces an
- (3) for an operation that takes function. arguments form library same operation. inherited method for the
- (4) All of these
- (5) None of these
- ဒ္ဌ The word ability to take many forms means the
- (1) Polymorphism
- (2) Overloader
- (3) Overrider
- (4) Aggregation
- (5) Generalization

- **36.** Rows of a relation are called (1) Relation
- (2) Tuples
- (3) Data structure
- (4) An entity
- (5) None of these
- 37. data fed? which component is the raw put results. Can you tell in cesses it and produces the out-A computer system consisting I/O devices accepts data, proof its processor, memory and
- (1) Mass Memory
- (2) Main Memory
- (3) Logic Unit
- (4) Arithmetic Unit
- (5) None of these
- **38**. The mechanical diskette drive er's-bus. is connected to the computin which we insert our diskette
- (1) Data
- (2) Communication
- (3) Address (4) Parallel
- (5) None of these
- 39. bulk is known as The process of transferring more convenient time or in transferred to peripheral at a diate store) so that it can be device into a disk (or intermedata intended for a peripheral
- (1) Multiprogramming
- (2) Spooling
- (3) Caching
- (4) Virtual programming
- (5) None of these
- **4**0. enation. This features is called duce a third string by concatthe same operation would pro-Consider an operation of ad-If the operand are strings, and operating will generate a sum. dition. For two numbers, the
- (1) Inheritance
- (2) Encapsulation
- (3) Polymorphism
- (4) Binding
- (5) None of these

- 41. Which of the following is not ponents? a context free grammar com-
- (1) Terminal symbols
- (2) Nonterminal symbol
- (3) Production line
- (5) None of these
- 42. tual address space. physical memory, not the vir ensures that the table occunot for each logical page. This entry for each physical frame TLB is a high speed cache used pies a fixed fraction of memopaged virtual memory. Invert page table entries a part of page table that contains an ed page table scheme uses a to hold recently referenced The size is proportional to
- (1) Three (2) Four
- (3) Five
- (5) More than Six (4) Six
- 43. Which one is capable of overfor another job? job with processor operations lapping I/O operation for one
- (1) Register
- (2) Operating System
- (3) Spooling
- (4) Buffering
- (5) None of these
- 44. TRAP? The TRAP is one of the interstatements is true regarding 8085. Which of the following rupts available in INTEL
- (1) It is level triggered
- (2) It is negative edge triggered gered as well as positive edge trig-
- (4) It is both positive edge trig-(3) It is positive edge triggered
- (5) None of these gered and level triggered
- 5 They way a particular applicauses is a : database that the application tion views the data from the

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- 46 (2) Five fields (1) Three fields Each node in a linked list must contain at least (5) None of these (4) Subschema (1) Module (3) Schema (2) Relational model 52
- 47. Encryption and decryption are (1) Transport (2) Session functions of the (5) Two fields layer.
- (3) Application
- (4) Presentation
- allocation deals with Banker's algorithm for resource
- (1) Deadlock prevention
- (2) Deadlock avoidance
- (3) Deadlock recovery
- (4) Mutual exclusion
- (5) All of these
- 49 which setting you use. which files you can access and formation that determines is a collection of in-
- (1) Network
- (2) User account
- (3) Operating system
- (4) File system
- (5) None of these
- 50. Which part of the computer age of files? provides only temporary stor-
- (1) ROM memory
- (2) Processor
- (3) Hard drive
- (4) Mother board
- (5) RAM Memory
- 51. What will be the output of "a" in following code?

int a=10;

int a = 20; int main() #include <stdio.h>

> printf("%d", a); printf("%d".a); return 0;

(1) 20 20

(2) 10 20

(3)2010(4) 10 10

(5) Compilation error

Firewall in computer is used

(1) Security

(3) Four fields

(4) One fields

(2) Data transmission

(3) Authentication

(4) Monitoring

(5) None of these

53. What is ISP and what is their function?

(1) Internal Service Provider: A ternet connection for a fee. company which provide in-

(2) Internet Service Provider: A vice to an organization. company which provide internal transferring data ser-

(3) Internet Service Provider: A company which provide inpeople for a fee. ternet connection to other

(4) Internal Service Provider: A between two company. connection to transfer data company provide internal

(5) None of these

54. Once the active medium is excal process? are produced by which physicited, the first photons of light

- (1) Blackbody radiation
- (2) Spontaneous emission
- (3) Synchrotron radiation
- (4) Plank's oscillation
- nology class systems? Which of the following is not design used in Advanced-techa type of expansion slot or bus
- (1) PCMCIA
- (4) EISA

(3) PROM

(5) None of these

56. A program that neither replidamage or compromises the cates or copies itself, but does security of the computer computer virus? Which of the following is that

(1) Joke program

(2) Worm

(3) Trojan

(5) None of these (4) Hoax

57. Which of the following state tain a remainder after dividing ments should be used to ob-

3.14 by 2.1?

(1) rem = 3.14%2.1;

(3) rem = fmod(3.14, 2.1); (2) rem=modf(3.14, 2.1);

(4) Remainder cannot be ob sion tain in floating point deci-

58 8 What should be the output of int main() #include<stdio.h> the following program?

j = &i;int i = 3, *j, k:

return 0; printf ("%d\n", i**j*i+*j);

(1)30

(2)27

(4)9

(3) 15

(5) 3

59. Which of the following state given program? ments are correct about the

int main() #include<stdio.h>

int size, i;

scant("%d",& size);

int arr[size];

for (1=1; k=size; i++)

printf("%d", [arr[i]); scanf("%d", arr[i]):

return 0;

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- (1) The code is erroneous since the subscript for array used in for loop is in the range 1 to size.
- (2) The code is erroneous since the values of array are getting scanned through the loop.
- (3) The code is erroneous since the statement declaring array is invalid.
- (4) The correct and runs successfully.
- (5) None of these
- brary functions are used to dynamically allocate memory?
- (1) malloc and memalloc
- (2) alloc and memalloc
- (3) malloc and calloc
- (4) memalloc and faralloc(5) None of these

- ANSWERS -

	1													
57 . (3)	53. (1)	49 . (2)	45 . (4)	41. (4)	37 . (2)	33 . (2)	29. (2)	25. (4)	21. (4)	17 . (1)	13 . (4)	9. (3)	5 . (4)	1. (2)
58. (3)	54. (2)	50 . (5)	46 . (5)	42. (*)	38 . (2)	34 . (1)	30. (2)	26. (2)	22. (3)	18. (1)	14. (1)	10 . (1)	6. (3)	2 . (3)
59 . (3)	55. (3)	51. (4)	47. (4)	43 . (3)	39. (2)	35. (1)	31. (1)	27 . (1)	23 . (1)	19. (1)	15. (1)	11. (3)	7. (4)	3. (1)
60.	56	52.	48.	44 . (4)	40. (3)	36. (2)	32. (4)	28. (1)	24. (1)	20. (1)	16. (1)	12 . (4)	8. (4)	4. (3)

- EXPLANATIONS -

. (2) The SQL DROP command is used to remove an object from the database. If you drop a table, all the rows in the table is deleted and the table structure is removed from the database. When a table is dropped all the references to the table will not be valid.

- 2. (3) 'software development life cycle,' these six steps include planning, analysis, design, development & implementation, testing & deployment and maintenance.
- 3. (1) DES and AES uses symmetric or Secret or private key cryptography. RSA and DSS are the most widely used public key encryption algorithms.
- **4.** (3) ISR. Stands for "Interrupt Service Routine." An ISR (also called an interrupt handler) is a software process invoked by an interrupt request from a hardware device.
- 5. (4) SQL data types that are ideal for large amounts of unstructured binary data include the BLOB data type (Binary Large Object) and the BFILE data type (Binary File object).
- **6.** (3) The application layer of the OSI model provides a framework to run application programs. It defines the language and syntax used by programs to communicate with supplementary programs.
- trols the reliability of communications through flow control, segmentation, and error control. Two great examples of transport protocols are TCP (as in TCP/IP) and UDP. TCP, or the Transmission Control Protocol, is connection orlented. UDP, or the User Datagram protocol, is not connection oriented.
- 8. (4) Star network consists of one central hub which acts as a conduit to transmit messages. In star topology, every host is connected to a central hub.
- **9.** (3) In the context of transaction processing, the acronym ACID refers to the four key properties of a transaction: atomicity, consistency, isolation, and durability.

- bal addressing system that uniquely identifies every host and router is necessary for work to network. The internet address (or IPv4) that uniquely defines a host or router on the internet.
- 11. (3) By default, the value of boolean primitive type is false.
- 12. (4) You can concatenate two strings easily using standard library function streat()of string. h header file.
- 13. (4) The memcpy function is used to copy a block of data from a source address to a destination address.
- 14. (1) DBMS built for online transaction processing (OLTP) is generally regarded as unsuitable for

data warehousing because each system is designed with a differing set of requirements in mind e.g.: OLTP systems are design to maximize the transaction processing capacity. OLTP holds current data whereas data warehousing holds historical data. OLTP supports day-to-day decisions and serves large number of clerical/operation users.

- ates the table or timetable. C. ates the inner join between A as the inner join between A and B by matching up rows and B by matching up rows using all the variables with the same name as key variables. Same name as key variables. You can perform inner joins you can perform toner joins only on certain combinations of tables and timetables. If A is a table, innerjoin returns C as a table.
- term that refers to any reduction in the strength of a signal. Attenuation occurs with any type of signal, whether