1. A fixed-length block of data that resides in secondary memory is called:

a) Frame b) Slot c) Segment d) Page

1. A technique in which the program and data are organized in such a way that various modules can be assigned the same region of memory, with main program responsible for switching the modules in and out as needed is called:

a) Partitioning b) Overlaying c) Overflowing d) Segmentation

1. A register specifies the address in memory for the next read or write is:

a) MAR b) MBR c) I/OAR d) IR

1. In multithreaded environment, each thread has its own following, except:

a) State b) Stack c) Local variables d) Virtual Address Space e) None of these

1. Setup time was prominent problem in which of the following system:

a) Batch b) Time Sharing c) Multiprogramming d) Serial e) Multiple Batch

1. Most efficient I/O communication technique is:

a) Programmed I/O b) Interrupt driven I/O c) Direct memory access (DMA)

1. Cache memory is managed by:

a) Processor/Hardware b) User-Program c) Operating System d) BIOS

1. \_\_\_\_\_\_\_\_ register contains the data to be written into memory or receives the data read from memory.

a) MAR b) MBR c) I/OAR d) IR

1. In \_\_\_\_\_\_\_ mode privileged instructions may be executed and protected areas of memory may be accessed?

a) User mode b) Static mode c) Dynamic mode d) Kernel mode

1. Bits typically set by the processor hardware as the result of operations are called:

a) Flags b) Interrupts c) Events d) Acknowledgments

1. \_\_\_\_\_\_\_\_\_\_ address consists of page number and an offset within the page.

a) Virtual Address b) Real Address c) Direct Address d) Index Address

1. Which is the layer of a computer system between the hardware and the user program:  
   a) Operating environment b) Operating system c) System environment d) None
2. Which is not the function of the Operating System?  
   a) Memory management b) Disk management  
   c) Application management d) Virus Protection
3. Virtual Memory is  
   a) Extremely Large Main memory

b) Extremely Large Secondary memory  
c) An illusion of extremely large main memory

d) An illusion of extremely large secondary memory

1. Unix Operating System is an  
   a) Multi User Operating System b) Time Sharing Operating System  
   c) Multi Tasking Operating System d) All the Above
2. Which of the following memory unit that processor can access more rapidly  
   a) Main Memory b) Virtual Memory  
   c) Cache memory d) Read Only Memory
3. First-in-First-Out (FIFO) scheduling is  
   a) Non Preemptive Scheduling b) Preemptive Scheduling  
   c) Fair Share Scheduling d) Deadline Scheduling
4. Copying a process from memory to disk to allow space for other processes is Called  
   a) Swapping b) Deadlock c) Demand Paging d) Page Fault
5. In which company Java was developed?

a) IBM b) AT&T Bell c) Sun d) Microsoft

1. Which of the following is not available in JAVA:

a) Pointer b) Constructor c) Do-While Loop d) Ternary Operator

1. If you have a program with objects named obj1 and obj2, what happens when you use the statement obj2 = obj1?

a) The instance variables in obj2 are given the same values as obj1.

b) obj2 and obj1 are considered to be the same object.

c) Neither (a) nor (b).

1. Which instance variable of an array is used to find out how big it is?

a) size b) length c) LastIndex d) MAX\_VALUE

1. How can you send an argument to a program that includes a space character?

a) Surround it with quotes.

b) Separate the arguments with commas.

c) Separate the arguments with period character.

d) Separate the arguments with underscore character.

1. If you create a subclass and override a public method, what access modifiers can you use with that method?

a) public only b) public or protected c) public, protected, or default access

1. If a class implements the Runnable interface, what methods must the class contain?

a) start(), stop(), and run() b) actionPerformed() c) run() d) do()

1. A subclass can call a constructor method defined by its parent class by use of

a) parent() b) this() c) new() d) super();

1. C is an example of \_\_\_\_\_\_\_ programming language.

a) Procedural b) Declarative c) Experimental d) Object Oriented

1. What header file must you #include with your source file to use cout and cin?

a) stdio b) iostream c) conio d) iomanip

1. Assuming var1 starts with the value 20, what will the following code print out?

cout << var1--; cout << ++var1;

a) 2020 b) 1920 c) 1921 d) 2021

1. The && and || operators

a) Compare two numeric values b) Combine two numeric values

c) Combine two Boolean values d) Compare two Boolean values

1. What header file must you perform #include with your program to use setw?

a) iostream b) iomanip c) conio d) stdio

1. The goto statement causes control to go to

a) an operator b) a variable c) a label d) a function

1. True or False: A structure declaration creates space in memory for a variable.

a) False b) True

1. When accessing a structure member, identifier to the left of the dot operator is the name of

a) structure member b) structure tag c) keyword struct d) structure variable

1. A function argument is

a) a variable in the function that receives a value from the calling program.

b) a way that function resist accepting the calling program’s values.

c) a value returned by the function to the calling program.

d) a value sent to the function by the calling program.

1. Overloaded function

a) are a group of function with same name.

b) all have the same number and types of argument.

c) make life simpler for programers

d) may feel unexpectedly due to stress.

e) Both a and c

1. Which of the following is responsible to initialize data members of object, to values of another object of same type without writing extra code:

a) Destructor b) No-Argument Constructor

c) Multi-Argument Constructor d) Default Copy Constructor

1. If an array has N number of elements then index of last element will be:

a) N-1 b) N c) N + 1 d) 0

1. Which keyword is used instead of function arguments to overload unary operator in postfix form?

a) float b) int c) post d) postfix

1. There are three classes A, B and C, which of following is multiple inheritance:

a) A is parent of B and B is parent of C

b) A and B are parents of C

c) A is only parent of C

d) A is parent of B and C

1. Polymorphism refers to:

a) Ability to assign multiple meanings to one function name.

b) Overriding base class functions.

c) Overloading functions d) none

1. Which can be used to create files, read data from them and write data to them?

a) ofstream b) ifstream c) frwstream d) fstream

1. Members of a class object are accessed with the:

a) dot operator b) extraction operator c) insertion operator d) None

1. If ptr is pointer variable which contains an address of some object having member show(), then which of the following is correct to access show() member function:

a) ptr.show() b) ptr->show() c) (\*ptr).show() d) Both b and c

1. C is a:

a) High level language b) Low level language c) Assembly language d) Machine language

1. C statement ends with a?

a) Period b) Comma c) Semicolon d) Question mark

1. a += b is equivalent to:

a) b += a b) a =+ b c) a = a + b d) b = b + a

1. Which of the following statements is not legal?

a) char ch=’b’; b) char ch=’0’; c) char ch=65; d) char ch=”cc”;

1. An ampersand (&) before the name of a variable denotes:

a) Actual value b) Variable Name c) Address d) Data type

1. Which operator in C is called a ternary operator?

a) if b) ++ c) ? d) ()

1. In which loop the condition comes after the body of the loop?

a) do-while b) while c) for d) None

1. Local variables are also called:

a) Automatic b) Normal c) Global d) Address

1. \_\_\_\_\_ protocol hides the differences among devices connected to the Internet.

a) SIP b) telnet c) FTP d) TCP/IP

1. \_\_\_\_\_ was first browser to use GUI.

a) Sea Monkey b) Netscape c) Mosaic d) Internet Explorer

1. Document root is used to hold

a) Server System Software b) Cookies

c) Temporary Files d) Servable Web Pages

1. Which of the following responses to browser requests

a) Operating System b) Gateway c) Apache d) FTP

1. HTML was defined with

a) SGML b) VRML c) UML d) SQL

1. Comments in HTML have form

a) /\*…\*/ b) //… c) <!--…--> d) #...

1. Standard heading sizes(<hx> to <hx>) in HTML are

a) <h1> to <h6> b) <h0> to <h6> c) <h1> to <h5> d) <h0> to <h4>

1. Correct statement to render X36 is

a) X<sup>6</sup><sub>3</sub> b) <sub>X<sub>3<sup>6</sup>

c) X<sub>3</sub><sup>6</sup> c) <sup>6</sup>X<sub>3</sub>

1. \_\_\_\_\_ level of CSS has highest priority to render in browser

a) Inline b) Browser’s default c) Document d) External

1. Which of the following is correct to define hyperlink

a) <a href=”abc.html”>ABC</a> b) <a rel=”abc.html”>ABC</a>

c) <link rel=”abc.html”>ABC</link> d) <a src=”abc.html”>ABC</a>

1. Which is the correct syntax to declare an javascript variable
2. x=5;  
   carname=“Honda";
3. var x=5;  
   var carname=“Honda";
4. both d) none
5. which one is NOT a javascript popup box
6. alert box b) confirm box c)promptbox d) form
7. \_\_ loop is used when you know in advance how many times script should run.
8. For b) while c) do while d) none
9. A/AN \_\_\_ is a special variable, which can hold more than one value, at a time.
10. Loop b) condition c) Array d) stack
11. Which of these is a reserved word in php?
12. Function b) for c) foreach d) all of these
13. Which of the following is not supported in php?
14. Cookies b) file handling c) form d) database
15. Which one is data type of php?
16. Integer b) Boolean c) double d) all
17. Which of the following database is compatible with php?

a)MS access b) oracle c) SQL d) none

1. Which of the following responses to browser requests

a) Operating system b) Gateway c) Apache d) FTP

1. are ideal to apply the same formats to all of the Web pages.

a) Foreign style sheets b) Embedded style sheets

c) Inline style sheets d) External style sheets

1. Client side validation is usually done by

a) PHP b) JavaScript c) JSP d) ASP

1. In PHP a variable starts with the \_\_\_ sign, followed by the name of the variable.

a) $ b) @ c) & d) ?

1. AJAX stands for .

a) Automatic JavaScript and XML b) Asynchronous JavaScript ActiveX

c) Alternate JavaScript and XML d) Asynchronous JavaScript and XML

1. Which of the following is an example of CMS?

a) JQuery b) Wordpress c) Yii d) Zend

1. Which of the following is used by Search Engine to fetch data from other websites?

a) CMS b) Cracks c) Bots d) Open source

1. Facebook belongs to:

a) Web 1.0 b) Web 2.0 c) Web 3.0 d) Semantic Web

1. A relation is also known as
2. Table b) Tuple c) Relationship d) Attribute
3. Which of the following is considered as DBMS?
4. Oracle b) MySQL c) Access d) MS SQL Server E. All A to D
5. Before use of DBMS information was stored using \_\_\_\_\_\_\_\_\_
6. File Management b) Cloud Storage c) Data System d) N Computing e) None
7. What type of relationship exists between a Teacher table and Class table in university DB?
8. One to One b) One to Many c) Two to Two d) Many to Many e) None
9. Which of the following Data Type is used to store serial number in Access.
10. Picture b) Text c) Data d) Date/Time e) None
11. In MS Access, Auto Number Data Type
12. Can be Sequential b) Can be Random c) Can be Edited d) Only A & B e) None
13. E-R model uses this symbol to represent weak entity set?
14. Dotted rectangle b) Doubly outlined rectangle c) Diamond d) Doubly outlined Oval e) None
15. In MS Access, A \_\_\_\_\_\_ retrieves and displays records in a Datasheet view
16. Insert b) update c) Select Query d) Param e) None
17. A relational database consists of a collection of
18. Fields b) Tables c) Records d) Keys e) None
19. The relationship type is represented in E-R diagram as
20. Double diamonds b) rectangles c) dotted line d) Diamond e) None
21. The columns of a table correspond to
22. Table b) Record c) Field d) Cell e) None
23. In 3NF, Which form of dependency is removed?
24. Functional b) Non-functional c) Associative d) Transitive e) None
25. A \_\_\_\_\_ is a device that forwards packets between networks by processing the routing information included in the packet.

a) bridge

b) firewall

c) router

d) all of the mentioned

1. A list of protocols used by a system, one protocol per layer, is called

a) protocol architecture

b) protocol stack

c) protocol suit

d) none of the mentioned

1. Communication between a computer and a keyboard involves \_\_\_\_\_\_\_\_\_\_\_\_\_\_ transmission

a) Automatic

b) Half-duplex

c) Full-duplex

d) Simplex

1. Three or more devices share a link in \_\_\_\_\_\_\_\_ connection

a) Unipoint

b) Multipoint

c) Point to point

d) None of the mentioned

1. The OSI model has \_\_\_ layers.

a) 4

b) 5

c) 6

d) 7

1. IP assigned for a client by DHCP server is

a) for a limited period

b) for unlimited period

c) not time dependent

d) none of the mentioned

1. Which protocol assigns IP address to the client connected in the internet?

a) DHCP

b) IP

c) RPC

d) none of the mentioned

1. In this topology there is a central controller or hub

a) Star

b) Mesh

c) Ring

d) Bus

1. DNS database contains

a) name server records

b) hostname-to-address records

c) hostname aliases

d) all of the mentioned

1. Which one of the following is not used to generate dynamic web pages?

a) PHP

b) ASP.NET

c) JSP

d) None