

Siemens Sample Paper

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1. Which of following operator can't be overloaded.

- a) ==
- b) ++
- c) ?!
- d) <=

2. For the following C program

```
#include<iostream.h>
main()
{printf("Hello World");}
```

The program prints Hello World without changing main() ,the output should be

intialisation
Hello World
Desruct

The changes should be

- a) IOstream operator<<(iostream os, char*s)
os<<'intialisation'<<(Hello World)<<Destruct
- b)
- c)
- d) none of the above

3. CDPATH shell variable is in(c-shell)

4. The term stickily bit is related to

- a) Kernel
- b) Undeletable file
- c) Both (a) and (b)
- d) None

5. Semaphore variable is different from ordinary variable by

6. For the following C program:

```
swap(int x,y)
{ int temp;
temp=x;
x=y;
y=temp;}
```

```
main()
{int x=2;y=3;
swap(x,y);}
```

After calling swap, what are the values x & y?

7. Static variable will be visible in

- a) Function. in which they are defined
- b) Module in which they are defined
- c) All the program
- d) None

8. Unix system is

- a) Multi processing
- b) Multi processing, multiuser
- c) Multi processing, multiuser, multitasking
- d) Multiuser, multitasking

9. X.25 protocol encapsulates the following layers

- a) Network
- b) Datalink
- c) Physical
- d) All of the above
- e) None of the above

10. TCP/IP can work on

- a) Ethernet
- b) Tokenring
- c) (a) & (b)
- d) None

11. A node has the IP address 138.50.10.7 and 138.50.10.9.
But it is transmitting data from node1 to node 2only.
The reason may be

- a) A node cannot have more than one address
- b) class A should have second octet different
- c) class B should have second octet different
- d) All of the above

12. The OSI layer from bottom to top

13. For an application which exceeds 64k the memory model should be

- a) Medium
- b) Huge
- c) Large
- d) None

14. The condition required for dead lock in unix system is

15. Set-user-id is related to (in unix)

16. Bourne shell has

- a) History record****other choices not given

17. Which of the following is not true about C++

- a) Code removably
- b) Encapsulation of data and code
- c) Program easy maintenance

d) Program runs faster

18. For the following C program

```
struct base {int a,b;  
base();  
int virtual function1();}
```

```
struct deriv1:base  
{int b,c,d;  
deriv1()  
int virtual function1();}
```

```
struct deriv2 : base  
{int a,e;  
}  
base::base()  
{a=2;b=3;  
}  
deriv1::deriv1()  
{b=5;  
c=10;d=11;}  
base::function1()  
{return(100);  
}  
deriv1::function1()  
{  
return(200);  
}
```

```
main()  
base ba;  
deriv1 d1,d2;  
printf("%d %d",d1.a,d1.b)
```

Output of the program is:

- a) a=2;b=3;
- b) a=3; b=2;
- c) a=5; b=10;
- d) none

19. For the above program answer the following q's

main()

```
base da;  
deriv1 d1;  
deriv2 d2;  
printf("%d %d %d",da.function1(),d1.function1(),d2.function1());
```

Output is:

- a) 100,200,200;
- b) 200,100,200;
- c) 200,200,100;
- d) None of the above

20. For the following C program

```
struct {  
int x;  
int y;  
}abc;
```

x cannot be accessed by the following

- 1)abc-->x;
- 2)abc[0]-->x;
- 3)abc.x;
- 4)(abc)-->x;

- a)1, 2, 3
- b) 2 & 3
- c) 1 & 2
- d) 1, 3, 4

21. Automatic variables are destroyed after fn. ends because

- a) Stored in swap
- b) Stored in stack and popped out after fn. returns
- c) Stored in data area
- d) Stored in disk

22. Relation between x-application and x-server (x-win)

23. What is UIL(user interface language) (x-win)

24) Which of the following is right in ms-windows

- a) Application has single qvalue system has multiple qvalue
- b) Application has multiple qvalue system has single qvalue
- c) Application has multiple qvalue system has multiple qvalue
- d) None

25. Widget in x-windows is

26. Gadget in x_windows is

27. Variable DESTDIR in make program is accessed as

- a) \$(DESTDIR)
- b) \${DESTDIR}
- c) DESTDIR

28. The keystroke mouse entries are interpreted in ms windows as

- a) Interrupt
- b) Message
- c) Event
- d) None of the above

29. Link between program and outside world (ms -win)

- a) Device driver and hardware disk
- b) Application and device driver
- c) Application and hardware device
- d) None

30. Ms -windows is

- a) multitasking
- b) multiuser
- c) both of the above
- d) none of the above

31. Dynamic scoping is

32. After logout the process still runs in the background by giving the command

33. Which process dies out but still waits

- a) Exit
- b) Wakeup
- c) Zombie
- d) Sleep

34. In dynamic memory allocation we use

- a) Doubly linked list
- b) Circularly linked
- c) B trees
- d) L trees
- e) None

35. To find the key of search the data structure is

- a) Hash key
- b) Trees
- c) Linked lists
- d) Records

36. Which of the following is true

- a) Bridge connects dissimilar LAN and protocol insensitive
- b) Router connects dissimilar LAN and protocol insensitive
- c) Gateway connects dissimilar LAN and protocol insensitive
- d) None of the above

37. Read types of tree traversals.

38. Read about SQL/Databases

39. A DBMS table is given along with simple SQL statements. Find the output.

40. Simple programs on pointers in c