

1. For the following program.

```
struct XXX
```

```
{int a;
```

```
float b;
```

```
char *s;
```

```
}X;
```

If optimization :X

not used in compiler then unused bits\_\_\_\_\_.

Give your assumption\_\_\_\_\_.

2. Give the output of the following program

```
struct XXX
```

```
{int a:6;
```

```
float b:4;
```

```
char s;
```

```
}structure;
```

```
size of (structure);
```

3. Class used for the multiple inheritance in JAVA\_\_\_\_\_

(a) anonymous class

(b) inner class

(c) abstract class

(d) none

4. XDR fixes in which part of OS1 stack.

5. LDAP is\_\_\_\_\_service protocol.

6. Given definition for a function which returns a array of pointers with argument of int\*.

7. Give a function declaration with no arguments which refers a two dimensional array

8. Pick up the correct function declaration.

1. void \*[] name();

2. void int[][] name();

3. void \*\* name();

4. none of the above.

9. Give the difference between monolithic and microlithic kernel:

a. monolithic large

b. microlithic used in embedded systems.

c. none.

10. RPC corresponds to\_\_\_\_\_in OSI stack.

11. Find the no. of page faults using LRU stack.

eg. 3 4 4 6 7 8 1 2

.. ..

12. The inorder representation of a tree 41523 and preorder is 211513

Draw it?

13. When does a stack member will be initialised

(a) when object is created

(b) when object is initialised.

(c) does not depend on object.

(d) none.

14. Number of CPU in a multiprocess is contrasted by

(a) RISC nowhere of CPU

(b) memory

- (c) both (a) and (b)  
(d) None of the above

15. Give the output  
of the following program

```
main()
{char *s;
s="hot java";
strcpy(s,"solaris java")
}
```

16. Give the output  
of the following program

```
main()
{printf("hot java");
fork()
exit(0);
}
```

- (i). When redirected  
to a screen what will be printed.  
(ii). When redirected to file what will be printed.

17. Give the output of the following program

```
main()
{int ret;
ret=fork();ret=fork();ret=fork();ret=fork();
if(!ret)
printf("sun");
else
printf("solaris");
}
```

18. Give the output of the following program

```
main()
{char *p='a';
int *i=100/*p;
}
```

what will be the value  
of \*i= 1

19. Which data structure gives efficient search

- 1 B-tree
- 2 binary tree
- 3 array
- 4 linked list

20. Find the error in the following program

```
struct point
{struct point *next;
int data;
}
x;
main()
{int i;
for(x=p;x!=0;)
x=x->next,x++;
freelist(x);
}
freelist(x)
{free(x);
```

return

}

21. Mutex and \_\_\_\_\_ are similar locking mechanisms.

22. A complex question on pointers and functions.

23. SNMP and SMIP transport layer protocols for TCP/IP&OSI.

24 UNIX: difference between select and poll