

Sun Microsystem Placement Paper

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 no. 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,"solarrs 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