

Persistent Sample Paper

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Company : Persistent
Date : 2004
College :

1-> operating system

1 . if there r n proceses and each process waits p time in waiting state then cpu utilization is-:

- a) $n(1-p)$
- b) $n*p$

2. a string of pages were given and no of page faults have to be found in LRU algorithm

3. there is a file server which provides locking for mutual exclusion . if any procees locks the file and abruptly terminated this will result in indefinitely locking .The solution they found is to implement a timer for locking of file i.e. if time outs then server assumes that file is indefinitely locked and terminate the process –

- a) this solution is perfect for mutual exclusion
- b) this will solve indefinite locking
- c) this will result in interleaving of file between processes
- d)

4.a critical section is –

ans a set of instruction which is shared by many proceeses

5.

OTHERS

6. there was a question on automata

ans – the resultant string will have even no of c

7.CFG was given

S -> 1 S 1

S-> 0 S 0

S -> 1 1

S -> 0 0

Find out the string

8 One singly circular ordered list is there if M elements are to be inserted what will be the complexity of time

- a) $O(M*N)$
- b) $O(M*(M+N))$
- c) $O((M+N) * \log(M+N))$
- d)

9. find postfix and prefix of

$$A + B * (C + D) / E + F$$

10. Find out shortest path from A to B

	A	B	C	D	E
A	0				m
B	m	0	2	2	m
C			0		5
D				0	6
E					0

Where m is infinity

11 from the following when 43 will not be found by binary search (a series was given with last element 43 in each)

12. from 100 – 999 find the prob. Of getting 3 digit no with no 7 in any of its digit

- a) 18/25
- b) 10/25
- c) 729/1000
- d)

13. from the set {a,b,c,d,e,f} find no of arrangements for 3 alphabet with no data repeated

14. To save space which option is better

- a) write all join operation than select than project
- b) -----,,-----than project---select
- c) -----,,-----in b/w select and project
- d)

Employee = { e_no , salary, fname, lname}
Works_On = {e_no, p_no, hrs}
Project = {p_no, p_name}

15. select e_no from Employee where salary = salary

- a) query invalid
- b)

16. select fname ,lname from Employee where e_no in (select e_no from works_on where p_no =(select * from project))

- a) name of Employee who works on all project
- b)
- c)
- d)

17. B tree is different from other

- a) has fixed index file size
- b) is better for queries like < <= > >=
- c) searching will be easy
- d)

18. func(char *s1,char * s2)

```
{  
char *t;  
t=s1;  
s1=s2;  
s2=t;  
}
```

void main()

```
{  
char *s1="jack", *s2="jill";  
func(s1,s2);  
printf("%s %s ",s1,s2);  
}
```

OUTPUT jack jill

19. void main()

```
{  
int a[5] ={1,2,3,4,5},i,j=2;  
  
for (i =0;i<5;i++ )  
func(j,a[i]);
```

```
for (i =0;i<5;i++ )  
printf(“%d”,a[i]);  
  
}
```

```
func(int j,int *a)  
{  
j=j+1;  
a=a+j;  
}
```

```
20 void main()  
{  
for (a=1;a<=100;a++)  
for(b=a;b<=100;b++)  
foo();  
}
```

```
foo()  
{ }
```

how many times foo will be called.

- a) 5050
- b) 1010
- c)
- d)

21.a hash table has a size of 11 and data filled in its position like{3,5,7,9,6}
how many comparisons have to be made if data is not found in the list in worst case

- a) 2
- b) 6
- c) 11
- d)

22.packet switching is better than circuit switching coz

- a) it takes less time
- b) it takes less bandwidth
- c)
- d)

23.addition of two sparse matrix in 3 tuple notation ---time 30 min

24.a tree has 1000000 nodes then how many search r required to search a node

- a) 25

- b)
- c)
- d)

25. some objective on recursion

26 a prgrm to arrange a string in order of occurrence of the character
i.e. the character which is coming max. in string should come first and so on
time –1hr.