

DRDO Sample Paper

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Company : DRDO

Date :

College :

if 100ns is Memory Access Time & 125 microsec is 1frame period. The no. of line that can be supported in a Time Divison Switch is

- a)125 Lines
- b)625 Lines
- c)525 Lines
- d)465 Lines

The no. of edges in disjoint Hamilton circuit in a complex graph with 17 edges is

- a) 8
- b) 9
- c) 136
- d) 17^2

15 persons in a club sit every day ina dinner table such that every member has different neighbour. This arrangement will last for how many days.

Assume a system has 16MB cache mean Disk Access Time & cache Access time is 76.5 ns & 1.5 overall mean Access time us 465ms for each tripling the memory the miss rate is halved. The memory required to bring down the mean Access time to 24ns is

- a) 16 MB
- b) 24 MB
- c) 32 MB
- d) 48 MB

Average transfer speed of a i/p serial line is minimum 25,000 Bytes & maximum 60000 Bytes. Polling Strategy adopted takes 4microsec(whether there is any i/p byte or not). It is assured that byte that retrived from controller before next byte arrives are lost. Then the maximum safe polling interveal is

- a) 12
- b) 12.33
- c) 12.67
- d) 32

A harddisk has a rotation speed of 4500RPM. then the latency time is

- a) .4
- b) .6

- c) .7
- d) .9

Suppose all elements above the principal diagonal of $n \times n$ matrix A are zero. If non zero elements of the lower triangular Matrix is stored in an array B with $A[1][1]$ stored at $B[1]$. The addressing formula to the nonzero element in $A[i][j]=?$

- a) $A[i][j]$
- b) $i(j-1)/2 + i$
- c) $j(i-1)/2 + i$
- d) $i(i-1)/2 + j$

The minimum number of comparisons required to find the second smallest element in a 1000 element array is

- a) 1008
- b) 1010
- c) 1999
- d) 2000

The internal path length of a Binary Tree with 10 nodes is 25. The external path length is

- a) 25
- b) 35
- c) 40
- d) 45

Average No. of Comparisons required to sort 3 elements is

- a) 2
- b) 2.33
- c) 2.67
- d) 3

In a switch the mean arrival rate of packets is 800 Packets/sec and the mean service rate is 925 Packets/sec

- a) .008 Sec
- b) .08 sec
- c) .8 sec
- d) 1.1 sec

What is Interface Control Information?

The minimum no. of Multiplications needed to compute x^{768} is

- a) 9
- b) 10
- c) 425
- d) 767

Find values for a,b,c,d

c 1 1 1

0 a 1 b

1 0 d 0

$$(967)_{\text{base } x} = 321_{\text{base } 9}$$

PART II Genreal 50 General Non-Technical[4 Options]
{ >20 questins were from Mathematic}

The area of red planet where the Mars Rover Landed?

In Which Day world Telecom Day Celebrated?

Laser is used for what?

- a) Treatment of Cancer
- b) Treatment of Eyes
- c) Treatment of Heart
- d) Treatment of Kidney

Which country is not a Member of SAARC

- a) Bangladesh
- b) Myanmar
- c) Maldives
- d) Nepal

The New Biotechnology Software intorduced by TCS is?

What is Wi Fi?

Which is the fastest Cruise Missile?