

## DRDO Sample Paper 2

<http://isbigdeal.blogspot.com>

It contained 2 parts PART 1 - pure technical 100 ques. and Part 2 50 Ques.

Part 1 was purely technical but I was hard 2 answer part 2 general Knowledge abt 20-25ques were from maths remaining from general. They collected the question paper back. I am herewith attaching some of the questions that noted down at hall.

1. If 100ns is Memory Access Time & 125 microsec is 1 frame 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
2. The no. of edges in disjoint Hamilton circuit in a complex graph with 17 edges is
  - a) 8
  - b) 9
  - c) 136
  - d)  $17^2$
3. 15 persons in a club sit every day in a 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

4. 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

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

- a) .4
- b) .6
- c) .7
- d) .9

6. Suppose all elements above the principal diagonal od n x n matix 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)  $i(i-1)/2 + j$

7. The minumum number of comparisons requied to find the second smallest element in a

1000 element array is

- a) 1008
- b) 1010

c) 1999

d) 2000

8. 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

9. Average No. of Comparisons required to sort 3 elements is

a) 2

b) 2.33

c) 2.67

d) 3

10. 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

11. What is Interface Control Information?

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

a) 9

b) 10

c) 425

d) 767

13. Find values for a, b, c, d

c 1 1 1

0 a 1 b

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1 0 d 0

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

PART II General 50 General Non-Technical [4 Options]

14. 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

15. Which country is not a Member of SAARC

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

The New Biotechnology Software introduced by TCS is?

16. The New Biotechnology Software introduced by TCS is?  
What is Wi-Fi?

17. Which is the fastest Cruise Missile?