

CTS '99
Pondicherry

SECTION I - 8 questions.
Series.

1. Interchange of letters in a word and the adjacent letters are also to be changed. given letters series like [also few conditions]

AAABBB=

ABABAB=

LET QUESTION IS ABBAAB

If we apply 25 on this it means we have to interchange the letters at positions 2 and 5, and we have to change the adjacent letters 2 and

5

from A to B and B to A.

That is q's A B B A A B

after Step 1 i.e interchange 2 and 5.

now change adjacent elements of 2 and 5...finally answer becomes

Ans: B A A B B A

//Hint: As per question papers 5 questions above like but numbers change.

REMAINING 3 QUESTIONS:

6. To get AAABBD from BBBAAA what ot apply:-

a) 25 b) 34 c) 25 & 34 d) none

SECTION II

1. Given the function $f(n \ a \ b \ c) = ac$ if $n=1$

$$f(n \ a \ b \ c) = f(n-1 \ a \ b \ c) + f(1 \ a \ b \ c) + f(n-1 \ b \ a \ c) \quad \text{if } n > 1$$

$$f(2) = ?$$

Ans: $f(2 \ a \ c \ b) = ab + ac + bc.$

2. similar question in functions.

3. [based on function in 1.] $f(4 \ a \ b \ c)$ the number of terms is...?

Ans: $f(4 \ a \ b \ c) = f(3 \ a \ c \ b) + f(1 \ a \ b \ c) + f(3 \ b \ a \ c)$ etc.
 $= 5ab + 5ac + 5bc.$

4. $f(5 \ a \ b \ c) = ?$

SECTION III

Permutations and Combinations.

8 questions.

1. r = number of flags;
 n = number of poles;
 Any number of flags can be accommodated on any single pole.
 - i) $r=5, n=5$ The no. of ways the flags can be arranged ?
 - ii) to iv) are based on this.
6. $r = 5, n = 3$. If first pole has 2 flags ,third pole has 1 flag

how many ways the remaining can be arranged?
 7.& 8. same as above.

SECTION IV

Question consisting of figures consist of 4 small squares and every square having an arrow pointing in one Direction.

GRE test of reasoning.

hint: What is the next sequence if we tilt the figure by 90 degrees like that(clockwise and mirror images ?).

SECTION V

In this section first part of compound word is given. Select meaning of the second part from the choice given:

1. Swan
2. Swans
3. Fool
4. Fools
5. Stare
6. Lady

For all above 4 choices are given.....

Eg. Swan

a) category b) music c) --- d) none

Ans: Swansong is compound word. But song is not given as option. so b) music is answer.

TS 99 PAPER .

This paper contains 40 questions and time is 60mts. /

CTS -REC'99 (TRICHY)

SECTION-1:

Find the sequence:

(d is always NONE)

1. BC CE EG GK ?
a) KN b) KU c) KM d)
2. AA AB BC CE ?
a) EG b) EH c) EI d)
3. AB EF JK QR ?
a) YZ b) ZA c) AB d)
4. ACD EGL IKT MOB ?
a) QST b) QSZ c) QSY d)
5. AC CG GO OE ?
a) EJ b) EI c) EL d)
6. AE BH CM DU ?
a) EH b) EZ c) EB d)
7. AD DP PL LV
a) VS b) VK c) VI d)
8. SE QU EN TI ?
a) CN b) BM c) AI or AZ d)

SECTION-II:

FIND THE VALUES FOR FOLLOWING PROBLEM:

$$F(X) = 2X-1 + f(X-1) \text{ if } X \text{ NOT EQUAL TO ZERO}$$

$$\text{if } f(X=0)=0$$

9. $f(5)$ VALUE
a) 15 b) 24 c) 22 d) NONE
10. $f(f(2))$
11. $f(16) - f(15)$
12. $f(16) + f(15) - 480$
13. $f(f(x)) = 81$ THEN VALUE OF $X =$
14. $f(X) = 4f(X-1)$ THEN VALUE OF $X =$
15. $f(X) = f(X-1) + f(X-2)$ FOR $X > 1$ THEN $X =$
16. $f(X) - f(X-1) = f(X-8)$ FOR $X > 5$ THEN $X =$

SECTION -III:

In the following questions we are giving 'a word' which may not have any meaning. Find different possible words or palindromes for the word as per
 r
 que.

I. for the following find no. of distinct words that can be formed.

17. TYGHHTT
- A) 420 B) 1540 C) 840 D) NONE
18. TYGHHTY
19. TYGHHTT
20. TYGHHTT
21. TYGHASD

22. TYGHHTY

II Find NO OF POSSIBLE PALANDRAMS for following

23. TYGHHTY

24. TYHHHTYH.

/*deAR FRIENDS DON,T CONFUSE WITH THE WORDS REPEATED.Iam sure.Words are

same.They might have changed the questionsfor20,21,22.Concentrate on that

respect*/

25 to 32 are figures.Uhave to analyse them.He will give five figs.One is not

correct

SECTION IV:

It having complete of figs.(26 -32)

SECTION -V:

For following first find out the anagram and then note the corresponding meaning.

33.TABLET(anagram means first u arrange the letters in correct order like

(TABLET===BATTLE . so ans is FIGHT i.e. B)

34.RUGGED

35.GORE.

36.STASSI.

For all above choices are.

A) resentment B)Fight c)Help d) Monster

37. ENFOLD

38. LAMB

39. RECEDE.

40. PLEASE.

For above 4 choices are same

A)cuddle B)sleeping c)proclamination d)ointment.

HCL SYSTEM SOFTWARE PAPER: 60 qs; 90 min. (4 sections)

NOTE : Please check answers once again.

only this much i got , which is available here in iit-kgp

section 1.

1.which of the following involves context switch,

- a) system call b) privileged instruction
- c) floating point exception
- d) all the above
- e) none of the above

ans: a

2. In OSI, terminal emulation is done in

- a) session b) application c) presentation d) transport

ans: b

3. 25MHz processor, what is the time taken by the instruction which needs 3 clock cycles,

- a) 120 nano secs b) 120 micro secs
- c) 75 nano secs d) 75 micro secs

4. For 1 MB memory no of address lines required,

- a) 11 b) 16 c) 22 d) 24

ans: 16

5. Semaphore is used for

- a) synchronization b) dead-lock avoidance
- c) box d) none

ans : a

6. class c: public A, public B

- a) 2 member in class A, B should not have same name
- b) 2 member in class A, C " " " "
- c) both
- d) none

ans : a

7. question related to java

8. OLE is used in

- a) inter connection in unix
- b) interconnection in WINDOWS
- c) interconnection in WINDOWS NT

9. No given in HEX ---- write it in OCTAL

10. macros and function are related in what aspect?

- a) recursion b) varying no of arguments
- c) type checking d) type declaration

11.preproconia.. does not do one of the following
 a)macro b)conditional compliclation
 c)in type checking d)including load file

ans: c

SECTION B

1.enum day = { jan = 1 ,feb=4, april, may}
 what is the value of may?
 a)4 b)5 c)6 d)11
 e)none of the above

2.main
 {
 int x,j,k;
 j=k=6;x=2;
 x=j*k;
 printf("%d", x);

ans x=1

3. fn f(x)
 { if(x<=0)
 return;
 else f(x-1)+x;
 }

ans fn(5)?

4. i=20,k=0;
 for(j=1;j<i;j=1+4*(i/j))
 {
 k+=j<10?4:3;
 }

printf("%d", k); ans k=4

5. int i =10
 main()
 {
 int i =20,n;
 for(n=0;n<=i;)
 {
 int i=10
 i++;
 }
 printf("%d", i);

ans i=20

```
6. int x=5;
    y= x&y
( MULTIPLE CHOICE QS)
ans : c
```

```
7. Y=10;
   if( Y++>9 && Y++!=10 && Y++>10)
printf("..... Y);
else printf("..... )
```

ans : 13

```
8. f=(x>y)?x:y
a) f points to max of x and y
b) f points to min of x and y
c)error
d) .....
```

ans : a

9. if x is even, then

```
(x%2)=0
x &1 !=1
x! ( some stuff is there)
```

```
a)only two are correct
b) three are correct
c), d) .....
```

ans : all are correct

10. which of the function operator cannot be over loaded

```
a) <=
b)?:
c)==
d)*
```

ans: b and d

SECTION.C (PRG SKILLS)

(1) STRUCT DOUBLELIST

```

{
    INT DET;
    STRUCT PREVIOUS;
    STRUCT NEW;
}
DELETE (STRUCT NODE)
{
    NODE-PREV-NEXT  NODE-NEXT;
    NODE-NEXT-PREV  NODE-PREV;
    IF (NODE==HEAD)
        NODE
}
IN WHAT CASE THE PREV WAS
(A) ALL CASES
(B) IT DOES NOT WORK FOR LAST ELEMENT
(C) IT DOES NOT WORK FOR-----
(2) SIMILAR TYPE QUESTION
ANS: ALL DON'T WORK FOR NON NULL VALUE

```

```

(3) VOID FUNCTION (INT KK)
{
    KK+=20;
}
VOID FUNCTION (INT K)
INT MM,N=&M
KN = K
KN+--=10;
}

```

SECTION D

```

(1) a=2,b=3,c=6      c/(a+b)-(a+b)/c=?
(2) no.rep in hexadecimal, write it in radix 7
(3) A B C D E
    * 4

```

```

----- find E    ANS: 13
E D C B A
-----

```

```

(4) GRE-MODEL TEST-1, SECTION-6(19-22)
(5) M HAS DOUBLE AMOUNT AS D, Y HAS RS. 3 MORE THAN HALF OF AMOUNT OF
D
    THE ORDERING  A,B,C          M C D C Y
    ANS:DATA INSUFFICIENT      D C M C Y
(6) IN STATISC MEN CAUSE MORE ACCIDENTS THEN ONE CONCLUSION
(A) MEN DRIVE MORE THAN  ONCE
(B) STATISTICS GIVE WRONG INFORMATION
(C) WOMEN ARE CAUTION THAN ME  ANS; C (VERIFY)
(D)-----ETC
(7) P,Q,R,S,T,U  -SECURING GRANT;TWO TOURIST PARTIES AND THEN TWO
SECURITY

```


GAURDS SHOULD GO WITH EACH PARTY

—

—

P AND R-ARE ENEMIES, Q DOES NOT GO SOUTH
P&S-ARE WILLING TO BE TOGETHER

—

THE TWO PARTIES MAY GO SOUTH&NORTH RESPECTIVELY
AT ONE POINT EACH MAY PASS EACH OTHER THEN GAURDS CAN EXCHANGE
6 Q BASED ON THIS
(8) $pq-r/s = 2$ what is q inference a,n&d
(a) a can do n units of work in strs, a&b can do n units of work in 2
hrs
in how many hrs n units of work ans: 3 hr 30 min $p = (2s+r)/q$

```
main()
{
    int var=25, varp;
    varp=&var;
    varp p = 10;
    fnc(varp)
    printf("%d%d", var, varp);
}
(a) 20,55 (b) 35,35 (c) 25,25 (d) 55,55
```

[c++, c, dbms interview]
[fundamentals]
this is new paper

—

application -software

part-1:
28-questions
(5) ingless ans: RDMS
(1) bit program-ans d
(2) c ans
(3) + 0 ans
(4) 00p--ans linking
(5) -----
(6) -----
(9) 25--45 even no. ans--10
(10) >10 <100 ---ans=n+9

•

I got HCL full paper. I am mailing it. The questions are in order. So you no need to prepare answers and mugging that questions. Just Jyou mug that answers which are in order or you write all these answers on the hand compactly while you are going to exam.

Paper Model:

Section I: computer awareness(i.e general things about computer)
Q.15

-ve marks -1/4

Section II: Simple C- language Q. 15 & -ve marks: -1/4

Section III: On pointers & structures

and C++,JAVA(only 1 on this) Q.10 each question ->2 marks

-ve marks: -1

Section IV: Analytical Q.20 each question -> 2 marks.

-ve marks: -1/4

VIJAYA from each section Iam giving one are to questions also because for checking whether the same paper or not. And for doubtful answers also I am writing questions but not writing answers for these questions.

SECTION-I

1). Piggy backing is a technique for

a) Flow control b) sequence c) Acknowledgement d) retransmission

ans: c piggy backing

2). The layer in the OST model handles terminal emulation

a) session b) application c) presentation d) transport

ans: b application

3) ans: a odd numbers of errors

4)Q. In signed magnitude notation what is the minimum value that can be represented with 8 bits

a) -128 b) -255 c) -127 d) 0

- 5) c 20
- 6) a 120
- 7) b synchronise the access
- 8) a system call
- 9) b the operating system
- 10) a 177333
- 11) d used as a network layer protocol in network and windows system
- 12) b has to be unique in the sub network
- 13) Q. there is an employer table with key fields as employer no. data in every n'th row are needed for a simple following queries will get required results.
- a) select A employe no. from employe A , where exists from employe B where A employe no. >= B employe having (count(*) mod n)=0
- b) select employe no. from employe A, employe B where A employe no.>=B employe no.groupby employe no.having(count(*) mod n=0)
- c) both a& b
- d) none of the above
- 14) Q. type duplicates of a row in a table customer with non uniform key field customer no. you can see
- a) delete from costomer where customer no. exists
(select distinct customer no. from customer having count)
- b) delete customer a where customer no. in
b rowid
- c) delete customer a where custermor no. in
(select customer no. from customer a, customer b)
- d) none of the above
- 15) c Volatile modifier

----- Section I over with 15 quetions -----

SECTION-II

Section II is not covered completly But it is very very easy . You can do it very easely.

1) ans: recursion

2) long int size

a) 4 bytes b) 2 bytes c) compiler dependent d) 8 bytes

ans: compiler dependent

note: order of a,b,c,d are doubt but answer is correct.

3) x=2,y=6,z=6

x=y==z;

printf("%d",x) ?

4) if(x>2)?3:4

5)

6)

7) ans: c 6 (quetion on enum)

8) ----

--

14) c : class A,B and C can have member functions with same name.

15) ans: d none of the above

SECTION-III

1) ans: b It does not work when rp is the last element in the linked list

2) ans: a always

3) ans: b 13

4) ans: b 16

5) ans: d 55,55

6) ans: c 5,10,10,3

7) ---

8) ans:d 4

9) ans: c 5

10)ans: c semicolon missing

SECTION-IV

following are not in order:

2. $M > D > Y$ ans: (a)

6. 10 in 4 seconds,
 ? in 6 minutes $= 10 \times 6 \times 60 / 4 = 900$ ans: (a)

7. $a=2, b=4, c=5$
 $(a+b)/c - c/(a+b) = 11/30$ (ans).

8. $100(1000000000+1000000000)/10000 = 2 \times 10000000$ (ans).

9. what does the hexanumber E78 in radix 7.
 (a) 12455 (b) 14153 (c) 14256 (d) 13541 (e) 131112 ans: (d)

10. Q is not equal to zero and $k = (Q \times n - s)/2$ find n ?
 (a) $(2 \times k + s)/Q$ (b) $(2 \times s \times k)/Q$ (c) $(2 \times k - s)/Q$
 (d) $(2 \times k + s \times Q)/Q$ (e) $(k + s)/Q$

(from GRE book page no:411)

data:

A causes B or C, but not both
 F occurs only if B occurs
 D occurs if B or C occurs
 E occurs only if C occurs
 J occurs only if E or F occurs
 D causes G,H or both
 H occurs if E occurs
 G occurs if F occurs

NOTE: check following answers.

11. If A occurs which of the following must occurs

I. F & G
 II. E and H
 III. D

(a) I only (b) II only (c) III only (d) I,II, & III
 (e) I & II (or) II & III but not both ans: (e)

12. If B occurs which must occur

(a) D (b) D and G (c) G and H (d) F and G (e) J ans: (a)

13. If J occurs which must have occurred

a) E (b) either B or C (c) both E & F (d) B (e) both B & C ans: (b)

14. which may occurs as a result of cause not mentioned

(1) D (2) A (3) F

(a) 1 only (b) 2 only (c) 1 & 2 (d) 2 & 3 (e) 1,2,3 ans: (c)

15. E occurs which one cannot occurs

(a) A (b) F (c) D (d) C (e) J ans: (b)

11 to 15:- ----- e , a , b , c , b -----

Below are in order:

16. to 20. answers:

e
a
c
a

----- over -----

BEST OF LUCK

In written test in each section you have to get minimum marks i.e you have to pass in each section. There will be questions from C, C++, JAVA. about 10 questions in C++ in the written test.