

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) hypocheking
- d) type declaration

11. preproconia.. does not do one of the following

- a) macro
- b) conditional complicitation
- 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
- | | |
|--|--|
| <pre> { INT DET; STRUCT PREVIOUS; STRUCT NEW; } DELETE (STRUCT NODE) { NODE-PREV-NEXT NODE-NEXT; NODE-NEXT-PREV NODE-PREV; IF (NODE==HEAD) NODE } </pre> | <pre> DOUBLE CLINKED LIST VOID BE GIVEN AND A PROCEDURE TO DELET AN ELEMENT WILL BE GIVEN </pre> |
|--|--|
- E
- 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

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- (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 STATISTIC 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

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application -software

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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) &gt;10 &lt;100 ---ans=n+9

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