

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) appl. c) presenta... 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)hypochecking d)type declaration

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

- a)macro b)conditional compiclation
- 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;          ans x=1
x=j*k;
printf("%d", x);
```

3. fn f(x)

```
{ if(x<=0)
  return;          ans fn(5) ....?
else f(x-1)+x;
}
```

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
      {
          DOUBLE LINKED
          INT DET;      LIST VOID
          STRUCT PREVIOUS;  BE GIVEN AND A PROCEDURE TO DELETE

```

```

    STRUCT NEW;          AN ELEMENT WILL BE GIVEN
  }
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 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

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

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