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Section A

Q1. 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

Q2. In OST, terminal emulation is done in

    (a) sessions layer
    (b) application layer
    (c) presentation layer
    (d) transport layer

ANS: b

Q3. For a 25 MHz 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

Q4. For 1 MB memory, the number of address lines required,

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

ANS: b

Q5. Semaphore is used for

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

ANS: a

Q6. Which holds true for the following statement

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 should not have same name
c) both
d) none

ANS: a

Q7. OLE is used in

a) inter connection in unix
b) interconnection in WINDOWS

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c) interconnection in WINDOWS NT

Q8. Convert a given HEX number to OCTAL

Q9. Macros and function are related in what aspect?

(a) recursion
(b) varying no of arguments
(c) **hypo checking**
(d) type declaration

Q10. Preproconia.. does not do which one of the following

(a) macro
(b) conditional complication
(c) in type checking
(d) including load file

ANS: (c)

Q11. Piggy backing is a technique for

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

ANS: c

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Q12. In signed magnitude notation what is the minimum value that can be represented with 8 bits

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

Q13. There is an employer table with key fields as employer number data in every nth row are needed for a simple following queries will get required results.

    (a) select A employee number from employee A , where exists from employee B where A employee no. = B employee having (count(*) mod n)=0
    (b) select employee number from employee A, employee B where A employee number=B employ number group by employee number having(count(*) mod n=0)
    (c) both (a) & (b)
    (d) none of the above

Q14. Type duplicates of a row in a table customer with non uniform key field customer number you can see

    a) delete from customer where customer number exists(select distinct customer number from customer having count)
    b) delete customer a where customer number in b row id
    c) delete customer a where custmor number in(select customer number from customer a, customer b)
    d) none of the above

Section B

Q1. Given the following statement 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

Q2. Find the output for the following C program

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

Q3. Find the output for the following C program

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

Q4. Find the output for the following C program

i=20,k=0;
for(j=1;j {k+=j<10?4:3; }
printf("%d", k);

ANS: k=4

Q5. Find the output for the following C program

int i =10

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

ANS: i=20

Q6. Find the output for the following C program

```
int x=5;
y= x&y
```

Q7.Find the output for the following C program

```
Y=10;
if( Y++9 && Y++!=10 && Y++10)
{printf("%d", Y);
else
printf("%d", Y);
}
```

ANS: 13

Q8. Find the output for the following C program

```
f=(xy)?x:y
```

a) f points to max of x and y
b) f points to min of x and y
c) error

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ANS: a

Q9. What is the sizeof(long int)

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

Q10. Which of the function operator cannot be over loaded

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

Q11. Find the output for the following C program

```
main()
{intx=2,y=6,z=6;
x=y==z;
printf(%d",x)
}
```