

INTERNATIONAL INDIAN SCHOOL, DAMMAM
MODEL EXAMINATION 2013-2014

SUB: COMPUTER SCIENCE
CLASS: XI

MAX. MARKS: 70
TIME: 3 HRS

SET B

Note: All Questions are compulsory.

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- | | |
|--|---|
| 1. Name the computers based on their performance. | 1 |
| 2. Differentiate between primary memory and secondary memory. | 2 |
| 3. What is meant by time sharing operating system? | 1 |
| 4. What is the significance of recycle bin? | 1 |
| 5. Define the following: | 2 |
| i) Dynamic RAM | |
| ii) Parallel Port | |
| 6. Convert the following: | 2 |
| i) $(2C9)_{16} = (?)_{10}$ | |
| ii) $(3674)_8 = (?)_2$ | |
| 7. Expand CISC. | 1 |
| 8. What are the different types of error that occur during programming? Explain any two. | 2 |
| 9. What are the different stylistic guidelines in program development? | 2 |
| 10. What are the different methods developed for program verification? | 2 |
| 11. Define: (1) Pretty printing
(2) Object code. | 2 |
| 12. Mention the different steps you would follow while writing a program. | 2 |
| 13. What do you mean by testing and debugging? | 2 |
| 14. What are the rules to be followed while naming an identifier? | 2 |
| 15. What are the advantages and disadvantages of floating point numbers over integers? | 2 |
| 16. Write the names of the header files to which the following functions belong:
(i) write() (ii) strrev() | 1 |
| 17. Write C++ expression for :
Result = $2 - ye^{2y} + 4^y$ | 1 |
| 18. How many times will the following loop execute?
int sum=0, i=0;
while(i<=5)
{
sum+=i; i++;
} | 1 |

19. Convert the following conditional statement to if-else.

```
int val, res, n=1000;
cin>>val;
res=(n+val)>1750?400:200;
cout<<res;
```

20. What is the difference between islower() and tolower() functions? Explain with example.

21. Rewrite the following program after removing all the syntax error(s), if any. Underline each correction.

```
#include <iostream.h>
void main( )
{
  int X[3] = { 60,50,30,40}, Y, Count = 4;
  cin >> Y ;
  for ( l = Count - 1 ; l >= 0; l --)
  switch( l )
  {case 0 :
  case 2 ; cout<<Y * X [l] << endl; break;
  case 1 :
  case 3 : cout >> Y + X [l] ; } }
```

22. Find the output of the following:

i) #include<iostream.h>
void main()
{
 int i, j, a=10 b=8;
 for(i=0;i<=a;i++);
 cout<<i<<" ";
 for(j=0;j<=b;j++);
 cout<<j<<endl;
 b=a;
 --a;
 b--;
 cout<<a<<" "<<++b;
}

ii) #include<iostream.h>
main()
{
 int a[5]= {15,20,25,30,35};
 int i, j,k=1,m;
 i = a[1] ++;
 j= ++a[2];
 m= a[k+1];
 cout<<i<<j<<k<<m; }

23. Differentiate between local variable and global variable with example.

2

24. Find the output of the following:

3

```
i) #include<iostream.h>
int max(int &x, int &y, int z)
{
    if(x>y && y>z)
    { y++;
      z++;
      return x;
    }
    else
    {
        if(y>x)
        return y;
        else
        return z;
    }
}
void main( )
{
    int a=20, b=15,c=10;
    a= max(a,b,c);
    cout<<a<<b<<c;
    b= max(a,b,c);
    cout<<+a<<+b<<+c<<endl;
}
```

3

```
ii) #include<iostream.h>
#include<string.h>
#include<ctype.h>
void main()
{
    char NAME[ ]="a pRoFiLE";
    for(int x=0;x<strlen(NAME);x++)
    {
        if(islower(NAME[x]))
        NAME[x]=toupper(NAME[x]);
        else
        if(isupper(NAME[x]))
        if(x%2!=0)
        NAME[x]=tolower(NAME[x-1]);
        else
        NAME[x]--;
    }
    cout<<NAME<<endl;
}
```

25. Rewrite the following program after removing the syntax error(s) if any. Underline each correction. 2

```
#include<iostream.h>
void main( )
{
One=10,Two=20;
void Callme(int A=10, int B);
Callme(One;Two);
Callme(Two);
}
void Callme(int Arg1, Arg2)
{
Arg1=Arg1+Arg2;
cout<<Arg1<<Arg2;
}
```

- 26 Write a C++ program to find the sum of the series 1+1!+2!+3!+..... 3

- 27 Write a C++ program to print every integer between 1 and n divisible by m. Also report whether the number that is divisible by m is even or odd. 4

28. Write a C++ program to divide all those elements of a one dimensional array by 3, which are divisible by 3 and multiply other elements by 7. 4

Eg. If the array elements are

21	11	33	10	18
----	----	----	----	----

The output should be

7	77	11	42	6
---	----	----	----	---

29. Write a C++ program to find the sum of both diagonal elements of a square matrix. 4

30. Write a C++ program to count the number of occurrences of a given character in a string. 3

31. Write a function to swap two numbers to swap two numbers using call by value. Write the main to invoke this function. 4
