

**INTERNATIONAL INDIAN SCHOOL, DAMMAM  
FIRST TERMINAL EXAMINATION 2013-2014**

**SUB: COMPUTER SCIENCE  
CLASS: XI**

**MAX MARKS: 70  
TIME: 3Hrs.**

**SET A**

1. How many bytes are there in one petabyte? 1
2. Name any one super computer developed by India. 1
3. What is utility software? Give two examples. 2
4. How is a compiler different from an interpreter? 2
5. Explain briefly the concept of time sharing. 2
6. What are the functions of the operating system as a resource manager? 2
7. Expand: i) DRAM      ii) EDVAC 1
8. What is the difference between EPROM and EEPROM? 2
9. Define :- i) Cache memory      ii) Word length      iii) Bluetooth. 3
10. Convert the following:- 4
  - i)  $(2345)_{10} \text{-----} (?)_{16}$
  - ii)  $(0100111010001)_2 = (?)_{10}$
  - iii)  $(EB4A)_{16} \text{-----} (?)_8$
  - iv)  $(815.125)_{10} \text{-----} (?)_2$
11. What is the role of main() in a C++ program? 1
12. What is the difference between 'a' and "a"? 1
13. What is meant by token? Name the different tokens available in C++. 2
14. Define variable? What are the two values associated with a variable? 2
15. What is a unary operator? Give two examples of unary operator. 2
16. Explain any two types of errors that usually occur while programming. 2
17. Write C++ expressions for the following: 2
  - i)  $a^2+b^2+c^2$
  - ii)  $(X+Y)^2+(P+Q)^4$

18. What is the order of evaluation of the following C++ expression? 2
- i) `a>b&&b<c||c<!d+3`
- ii) `x*y+z%p&&q-r+p++`
19. What will be the result of the following C++ expression? 1
- `4*5+7*2-8%3+4&&4/2-1+4||2-4+6*2`
20. Convert the following as directed: 2
- i) **if-else to switch:**

```
int x,y,z;
cin>>x>>y>>z;
if (x==1)
cout<<x*y+5;
else if (x==2)
cout<<x+2+y;
else if (x==3)
{
z=(x*y*5)/2;
cout<<z;}
else cout<<x<<' '<<y<<' '<<z;
```

ii) **conditional to if-else:** 2

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

21. i) What is the effect of absence of break in a switch statement? 1
- ii) What do you mean by type casting? 1
22. Rewrite the following C++ program after removing all the syntax error(s), if any: 2

```
i) #include(iostream.h)
void main()
{
Int X, Y;
cin>>X;
if X= =Y
cout<<Y+X;
else
cout>>Y;
}
```

ii) #include<iostream.h>

2

```
void main()
{
    int r; w=90;
    w-50=r;
    switch(r)
    {
        case 20; cout<<"Lower Range"<<endl;
            break;
        case 30: cout<<"Upper Range"<<endl;
    }
    getch();
}
```

23. Give the output of the following code:-

2

```
i) void main()
{
    int x = 5, y = 5;
    cout<<x--;
    cout<<" ";
    cout<<--x;
    cout<<" ";
    cout<<y++<<" "<<++y;
}
```

24. What will be the result of the following expression if

1

```
ans=700, val=300;
ans-(val<500?150:50)
```

25. Construct logical expression to represent the following conditions:

1

i) either age is more than 70 or members are more than or equal to 8

26. Write a program to input length in centimeter and convert it to equivalent inches and feet.

3

27. Write a program to swap two numbers without using third variable.

3

28. Write a program to find the smallest of three numbers using conditional operator.

3

29. Write a program to check whether a given number is odd or even. If it is even check whether it is divisible by 5 and if odd check whether it is divisible by 7.

4

30. Write a program to calculate and print roots of a quadratic equation  $ax^2+bx+c=0$  ( $a \neq 0$ ).

4

31. Write a program to calculate area of circle, rectangle or a triangle depending upon user's choice.

4

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