

INTERNATIONAL INDIAN SCHOOL, DAMMAM
FIRST TERMINAL EXAMINATION 2013-2014

SUB: COMPUTER SCIENCE
CLASS: XI

MAX
TIME: 3H

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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) $a^2+b^2+c^2$

18. What is the order of evaluation of the following C++ expression? 2

i) $a > b \&\& b < c \mid \mid c < !d + 3$

ii) $x * y + z \% p \&\& q - r + p++$

19. What will be the result of the following C++ expression? 2

$4 * 5 + 7 * 2 - 8 \% 3 + 4 \&\& 4 / 2 - 1 + 4 \mid \mid 2 - 4 + 6 * 2$

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>
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
