COMPUTER INFORMATION TECHNOLOGY –I

STANDARD XI   Time : 2 hours +
                                            15 minutes coolofftime

1. Classify the following into C++ tokens
   char   %   hello   43.5   while Sum   main   '9'   "A"   (2)
2. State TRUE or FALSE
   a)   INT can be used as a variable in C++
   b)   Each case block must end with a break statement
   c)   071 is an Decimal Integer constant
   d)   A line in a C++ program contains more than one statements   (2)
3 Consider the following two C++ statements. Are they equivalent? Why?
   a) char grade =65;
   b) char grade ='A';
4 State the difference between '\n' and "\n"   (1)
5 Pick out the odd one from the following and write reason
   a) ++   <   &&   %   b) =   = =   !=
   c) char   int   DOUBLE   d) if   switch   for   (2)
6 Find out the errors in the following program and correct it.
   #include iostream.h
   void main()
   {
   int A,B,C;
   cin<<a,b;
   C=a*b;
   cout<<C;
   }   (2)
7 Choose invalid Identifiers from the following and give reason.
   a) roll.no   b)x_25 c)basic pay   d)_123   e)a*b   f)Char   (2)
8 Predict the value of 'a' if
   i)   a=int(21.3)/int(4.5);
   ii)   a=10%-5;   (2)

9 Classify the following operators into Arithmetic operators , Relational operators and
   Logical operators
       a)   <   = =   !   +   &&   -   *   %   !=   (3)
10 pow() is defined in _____ headerfile   (1)
11 Specify the datatype for the following expressions
       a) Itemcode=A   b) Price=15.00   c) Quantity=4 d)Total=4200   (2)
12 Write C++ statements for the following expressions
       a) s=1/2at^2 b)v=4/3Πr^3 (2)
13   Write the output of the following.
   a)   int a=15;
           cout<<"++a="<<++a<<"a="<<a;
   b)   int a=15,b;
           b=a++ + ++a;
           cout<<b;   (3)
14 Write down the various program development stages

OR

Explain different Translators (3)

16 Compare structure and Arrays (3)

17 Match the following

A	B
a) EPROM	1) Flash memory
b) EEPROM	2)High speed buffer
c) PROM	3)Erasable programmable memory
d) DRAM	4) Programmable memory
	5)Main memory
	6)Optical memory (4)

18 With the help of a block diagram , explain the functional units of a computer (4)

19 Compare RAM and ROM (2)

20 If your maths teacher proposed a problem to solve the given function

y=2 for x>0

y=0 for x= =0

y=-2 for x<0

Can you solve this using if structure (3)

21 Convert the following for loop into while

for(i=1;i<=10;i++)

cout<<i;

22 Evaluate the following expressions with a=10 and b=5

a) (a>b)&&(a= =b||a*b>100);

b) (a!=b)&&(a%2= =0&&a-b= =5); (2)

23 Find the value of **x** in the following expression where x=2, y=3 and z=4

x* =(y+z)/x+3/4+z; (2)

24 Explain IDE and its various parts (3)

25 Explain actual and formal arguments (2)

26 Write an algorithm to largest among N numbers (3)

27 Write a program to input N strings I from keyboard and arrange them in alphabetical Order (3)

28. Categorize the following loops into Entry controlled and Exit Controlled loops

a) while   b) do---while

Draw neat sketches of entry and exit loops (2)

****