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## INDIAN SCHOOL MUSCAT SECOND PERIODIC TEST

### COMPUTER SCIENCE

CLASS: XI

Sub. Code: 283

Time Allotted: 50 mts

09.01.2019

Max. Marks: 20

#### GENERAL INSTRUCTIONS:

- Answer all questions.
- Programming language is C++.
- Write programs neatly and clearly.

1. What is the difference between local variable and global variable? 1
2. Write the names of the header files to which the following functions belong: 1  
i) tolower( ) ii) strcmp( )
3. What is the purpose of using a typedef command in C++? Explain with suitable example. 2
4. Write definition for a structure STUDREC that stores information about a student such as rollno, name and DOB. The DOB member of STUDREC stores the information day, month and year. 2
5. How is call-by-value method of function invoking different from call-by-reference method? Give appropriate examples supporting your answer. 2
6. Give the output of the following program: 2

```
#include<iostream.h>
void Execute(int &X, int Y=100)
{int TEMP = X + Y;
X += TEMP;
if(Y != 100)
cout<<TEMP<<X<<Y<<endl;
}
int main()
{
int A=10, B=30;
Execute(B);
cout<<A<<B<<endl;
Execute(B);
cout<<A<<B<<endl;
return 0;
}
```

7. Define a structure customer with the following members : Idno, name, units and amount. 4  
Write a C++ Program to read Idno, name and number of units consumed for **n** customers and compute amount as per the following criteria :
- | Units     | Amount             |
|-----------|--------------------|
| 1 – 100   | 200 baiza per unit |
| 101 – 300 | 400 baiza per unit |
| > 300     | 500 baiza per unit |
- For example , if the units consumed is 350, then  
amount =  $100 \times 0.200 + 200 \times 0.400 + 50 \times 0.500$   
Display Idno, name, number of units and total amount for **n** customers.
8. Write a program using functions to find the simple interest. Give the function name as Interest( ) Accept principal amount and number of years in the main( ) function, fix the rate of interest as 15% as default argument. Pass principal amount and number of years to the function Interest( ), calculate the simple interest and display the result within the function. 3
9. Write a program using functions to accept a number and check whether it is palindrome or not. The function name is Palindrome( ). Accept the number in main( ) and pass it as argument to the function and display the result from main( ). 3

**End of the Question Paper**