A

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. Write the names of the header files to which the following functions belong: 1
   i) strlen( )   ii) toupper( )

2. Differentiate between the formal parameters and actual parameters of a function.   1

3. Write definition for a structure EMPREC that stores information about an employee such as   2
   empno, name, address and salary. The address member of EMPREC stores the information
   houseno, area and city.

4. How is call-by-value method of function invoking different from call-by-reference method?   2
   Give appropriate examples supporting your answer.

5. What is the difference between #define and const? Explain with suitable example.   2

6. Give the output of the following program: 2

```cpp
#include<iostream.h>
void Calculate (int &X, int Y=100)
{int TEMP = X + Y;
X += TEMP;
if(Y != 100)
    cout<<TEMP<<X<<Y<<endl;
}
int main()
{
int A=40, B=50;
Calculate(B);
cout<<A<<B<<endl;
Calculate (B);
cout<<A<<B<<endl;
return 0;
}
```

7. Write a program using functions to count and display the number of vowels in a string.   3
Give the function name as Vowel( ). Accept the string in main( ) function and pass it to the
Vowel( ) and display the result from the Vowel( ) function.

8. Write a program using functions to accept a number and check whether it is prime or not.   3
The function name is Prime( ). Accept the number in Prime( ) function and display the result
from main( ).

9. 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*0.200 + 200*0.400 + 50*0.500
Display Idno, name, number of units and total amount for **n** customers.

End of the Question Paper