



## INDIAN SCHOOL MUSCAT

## FIRST PERIODIC TEST

## COMPUTER SCIENCE

CLASS: XII

Sub.Code:083

Time Allotted: 50mts.

19.04.2023

Max .Marks: 20

**GENERAL INSTRUCTIONS:**

- (a) All questions are compulsory.  
(b) Programming language is Python.

1. Find out the invalid identifiers from the following: 1  
a) StudentName    b) perc%    c) 3Number    d) COMP\_SC
2. Consider the following expression: 1  
`print(51 + 4 - 3**3 // 19 - 3)`  
Which of the following will be the correct output if the expression is evaluated?  
a) 31    b) 51    c) 50    d) 41
3. Consider two dictionaries – 1  
Dict1={"Eng":45,"CS":90,"IT":88,"Chem":75}  
and Dict2={"Chem":92,"Bio":60}  
What will be content of Dict1 after executing the following command?  
`Dict1.update(Dict2)`
4. Rewrite the following code in Python after removing all syntax error(s). Underline each 2  
correction done in the code.  
`300=X`  
`for VAL in range(0,X)`  
`if VAL%4=0:`  
`print (VAL*4)`  
`elif VAL%5==0:`  
`print (VAL+3)`  
`Else:`  
`print(VAL+10)`

5. Predict the output of the Python code given below: 2
- ```
List = ["A",20,"B",10,"C",30]
Count = 0
Beta = " "
for C in range(1,5,2):
    Count = Count + C
    Beta= Beta + List[C-1]+"@"
print (Count, Beta)
```
6. What possible outputs(s) are expected to be displayed on screen at the time of execution of the program from the following code? Also specify the maximum values that can be assigned to each of the variables Lower and Upper. 2
- ```
import random
AR=[20,30,40,50,60,70]
Lower =random.randint(1,3)
Upper =random.randint(2,4)
for K in range(Lower, Upper +1):
    print (AR[K],end="#")
```
- (i) 10#40#70# (ii) 30#40#50# (iii) 50#60#70# (iv) 40#50#70#
7. Write a python program that creates a tuple storing first 15 terms of Fibonacci series. 3
8. Write a python code that prints the longest word in a given list of words. 3
9. What is the default return value for a function that does not return any value explicitly? 1
10. Differentiate between actual parameter(s) and a formal parameter(s) with a suitable example for each. 2
11. Write a program which inputs a list of numbers. Use a function to find the sum of even numbers from this list and return the sum. The main should print the result. 2



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1. Find out the invalid identifiers from the following: 1  
 a) Price\*qty    b) For    c) Sales\_Amount    d) 4thcol
  
2. Consider the following expression: 1  
`print( 2 ** 3 // 2 + 5 - 10 % 3 + 2)`  
 Which of the following will be the correct output if the expression is evaluated?  
 (a) 17    (b) 10    (c) 27    (d) 16
  
3. Consider two dictionaries – 1  
`D1={"One":11,"Two":66,"Three":79,"Four":32}`  
`and D2={"Five":55,"Three":33}`  
 What will be content of D1 after executing the following command?  
`D1.update(D2)`
  
4. Rewrite the following code in Python after removing all syntax error(s). Underline each 2  
 correction done in the code.  
`500=Y`  
`for I in range(0,Y)`  
`If I%4==0:`  
`print (I*4)`  
`elif I%5=0:`  
`print (I+3)`  
`else:`  
`print(I+10)`

5. Predict the output of the Python code given below: 2
- ```
Data = ["P",20,"R",10,"S",30]
Times = 0
Alpha = " "
for C in range(1,5,2):
    Times= Times + C
    Alpha= Alpha + Data[C-1]+"$"
print (Times,Alpha)
```
6. What possible outputs(s) are expected to be displayed on screen at the time of execution of the program from the following code? Also specify the maximum values that can be assigned to each of the variables START and END. 2
- ```
import random
AR=[20,30,40,50,60,90]
START =random.randint(1,3)
END =random.randint(2,4)
for K in range(START, END +1):
    print (AR[K],end="#")
```
- (i) 10#40#90# (ii) 40#50#90# (iii) 50#60#90# (iv) 30#40#50#
7. Create a dictionary containing names of competition winner students as keys and number of their wins as values. Print the names of winners whose number of wins is greater than 20. 3
8. Write a program to display those string which are starting with 'A' from the given list. 3
9. If a function returns more than one value and the function call is assigned into a single variable, what will be the data type of the variable? 1
10. What is the utility of keyword arguments in function? Explain with an example. 2
11. Write a program which calls a function that inputs a positive integer and returns the one's position digit of the integer. 2



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1. Find out the valid identifiers from the following: 1  
 a) Area2    b) 2price    c) sales%    d) Else
2. Consider the following expression: 1  
`print( 5 * 3 // 4 + 6 + 9 % 2 + 7 )`  
 Which of the following will be the correct output if the expression is evaluated?  
 (a) 17    (b) 20    (c) 27    (d) 16
3. Consider two dictionaries – 1  
`D={1:"L", 2:"M", 3:"N"}`  
 and `D1={2:"P", 4:"H", 5:"O", 3:"Y"}`  
 What will be content of D after executing the following command?  
`D.update(D1)`
4. Rewrite the following code in Python after removing all syntax error(s). Underline each 2  
 correction done in the code.  
`60=NUM`  
`for X in range(0,NUM)`  
`if X%2=0:`  
`print (X*4)`  
`elif X%7==0:`  
`print (X+5)`  
`Else:`  
`print(X+10)`

5. Predict the output of the Python code given below: 2
- ```
List = ["X",200,"Y",100,"Z",300]
Count = 0
Gamma= " "
for C in range(3,7,2):
    Count = Count + C
    Gamma= Gamma+ List[C-1]+"#"
print (Count,Gamma)
```
6. What possible outputs(s) are expected to be displayed on screen at the time of execution of the program from the following code? Also specify the maximum values that can be assigned to each of the variables L and U. 2
- ```
import random
ARR=[20,30,40,50,60,80]
L =random.randint(1,3)
U=random.randint(2,4)
for K in range(L, U+1):
    print (ARR[K],end="#")
```
- (i) 10#40#80#    (ii) 50#60#80#    (iii) 30#40#50#    (iv) 40#50#80#
7. Write a program to remove all odd numbers from the given list. 3
8. Write a program to find and display the sum of all the values which are ending with 3 from a given list. 3
9. What is the default return value for a function that does not return any value explicitly? 1
10. What is the utility of default arguments in function? Explain with an example. 2
11. Write a program which inputs two numbers and pass them as arguments to a function SWAP( ) which swap the values of two variables and print the result in the function. 2