



INDIAN SCHOOL MUSCAT

FIRST PERIODIC TEST

COMPUTER SCIENCE

CLASS: XII

Sub. Code: 083

Time Allotted: 50 mts.

24.04.2022

Max. Marks: 20

1. Evaluate the following expression: 1
`not(20>6) or (19>7)and(20==20)`
2. What is the output of the below program? 1
`Def say(message, times = 1):
 print(message * times)
say('Hello')
say('World', 3)`
3. Find the invalid identifiers from the following 1
a) Subtotal b) Date of birth c) rate% d) temp_calc
4. `def Exec(p,q,r):
 return p+q,p-q,p*q
X = Exec(2,3,4)
print(type(X))` 1
5. Consider the following code and find out the possible output(s) from the options given below. Also write the highest value that can be generated by first and second print statements. 2
`Import random as r
print(10 + r.randint(10,15) , end = ' ')
print(10 + r.randrange(10,15) , end = ' ')`
i) 25 25 ii) 20 22 iii) 23 25 iv) 25 24
6. Write a function that takes two numbers as arguments and return the number with smaller one digit position number (Eg. If 332 and 79 are the numbers , function should return 332 since it's one digit position of 332 is 2 which is less than 9 of 79) 2
7. Rewrite the following code after removing the error(s). Underline each correction. 2
`For name in ['Shruthi', 'Priya', 'Pradeep', 'Vaishnav':
 print name`

```

    if name[0] = 'P'
    break
else:
    print('Over')
    print("Done")

```

8. What is the meant by keyword argument? Give example. 2

9. Give the output: 2

```

a=[1,3,4,"done"]
print(a[-1:-3:-1])
print(a[3][2])

```

10. Give the output : 2

```

def output(m=5):
    for i in range(0,m):
        print(i+2,'@',end=" ")
        print("\n")
output(4)
output()

```

11. Write a program which calls a function that inputs 3 numbers and find the average of the 3 numbers. The function should return the result. 2

12. Write a program to create a dictionary containing names of competition winner students as keys and number of their wins as values 2

End of the Question Paper



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GENERAL INSTRUCTIONS:

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

1. Declare a dictionary in python named QUAD having Keys(1,2,3,4) and Values ("India","USA","Japan","Australia") 1
2. What will the following function return? 1

```
def abc(a,b):
    print(a+b)
```
3. Identify the invalid keywords in Python from the following: 1
 (a) true (b) None (c) Import (d) return
4. What will be the output of following code? 1

```
def Calculate(A,B):
    return A*2, B*2
val = Calculate(10,12)
print(val)
```
5. 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 first, second and third. 2

```
from random import randint
LST=[5,10,15,20,25,30,35,40,45,50,60,70]
first = randint(3,8)
second = randint(4,9)
third = randint(6,11)
print(LST[first],"#", LST[second],"#", LST[third],"#")
```

(i) 20#25#25# (ii) 30#40#70# (iii) 15#60#70# (iv) 35#40#60#

6. Write a function to check whether a number is prime or not. Function should return 1 if it is prime else 0. 2
7. Rewrite the following code in Python after removing all syntax error(s). Underline each correction done in the code. 2
- ```
p=30
for c in range(0,p)
 If c%4=0:
 print (c*4)
 elseif c%5=0:
 print (c+3)
 else
 print(c+10)
```
8. What is the meant by default argument? Give example. 2
9. Give the output: 2
- ```
a=["ribbons","of","blue"]
print(a[0][::-1])
print(a[2][2])
```
10. Find and write the output of the following Python code: 2
- ```
def change (P,Q=30):
 P=P+Q
 Q=Q-P
 print(P,"#",Q)
R=150
S=100
change(R)
print(R,"#",S)
```
11. Write a program to input a list of numbers. Pass it to a function Even() which prints the sum of even numbers from the list. 2
12. Write a program to show entered string is a palindrome or not. 2

**End of the Question Paper**



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**GENERAL INSTRUCTIONS:**

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

1. Evaluate the following expression: 1  
a)  $2 ** 3 ** 2$
2. Give the output: 1  
`t1=(2,3,4,5,6)`  
`print(t1.index(4))`
3. Which Line Number Code will never execute? 1  

```
def Check(num): #Line 1
 if num%2==0: #Line2
 print("Hello") #Line3
 return True #Line 4
 print("Bye") #Line5
 else: #Line6
 return False #Line 7
C =Check(20)
print(C)
```
4. Ravi a python programmer is working on a project, for some requirement, he has to define a function with name CalculateInterest(), he defined it as: 1  
`def CalculateInterest(Principal,Rate=0.06,Time):`  
`#code`  
But this code is not working, Can you help Ravi to identify the error in the above function and what is the solution.
5. 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 BEG and END. 2

```
import random
Heights=[10,20,30,40,50]
Beg=random.randint(0,2)
End=random.randint(2,4)
for X in range(Beg,End):
 print(Heights[X],end="@")
```

- (a) 30@
- (b) 10@20@30@40@50@
- (c) 20@30
- (d) 40@50@

6. Write a program using function to swap the values of two variables through a function. 2
  
7. Rewrite the following code in Python after removing all syntax error(s). Underline each correction done in the code. 2  

```
Y=integer(input("Enter 1 or 10"))
if Y==10
for Y in range(1,11):
 print(Y)
else:
 for m in range(5,0,-1):
 print(thank you)
```
  
8. What is the meant by positional argument? Give example. 2
  
9. 

```
a=["all","is","well"]
print(a[2][:-1])
print(a[1][1])
```

2
  
10. Find the output of the following code : 2  

```
def change(s):
 d = {"UPPER" : 0, "LOWER" : 0 }
 for c in s:
 if c.isupper():
 d["UPPER"] += 1
 elif c.islower():
 d["LOWER"] += 1
 else:
 pass
 print("Upper case count :", d["UPPER"])
 print("Lower case count :", d["LOWER"])
change("School Days are Happy")
```
  
11. Write a program to input a string. Pass it to a function and check whether it is palindrome or not. The function should print the result. 2
  
12. Write a program to find and display the sum of all the values which are ending with 3 from a list. 2

**End of the Question Paper**