



INDIAN SCHOOL MUSCAT
SECOND PERIODIC ASSESSMENT
COMPUTER SCIENCE (083)



CLASS: XII

MAX.MARKS: 20

DATE: 10.05.2021

MARKING SCHEME

TIME ALLOWED: 40 Minutes

INSTRUCTIONS:

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

1.	Which of the following can be used as valid variable identifiers in python? i) 4Sum ii) Total pay iii) Number# iv) my_string Ans: my_string (1 Mark)	1
2.	Evaluate the expression given below: $(7+3)^*5//4+(6+4)/2$ Ans: 17 (1 Mark)	1
3.	Identify the mutable and immutable data types and the following: i) List ii) Tuple iii) Dictionary iv) String Ans: Mutable – i) List iii) Dictionary Immutable- ii) Tuple iv) String (½ Mark each)	1
4.	Which one is valid relational operator in python? i) / ii) = iii) == iv) and Ans: iii)== (1 Mark)	1
5.	Write a statement in Python to declare a dictionary namely Day whose keys are 1, 2, 3 and values are Monday, Tuesday and Wednesday respectively. Ans: Day={1:'Monday',2:'Tuesday',3:'Wednesday'} (1 Mark)	1
6.	Predict the output: <code>x=(1,(2,(3,(4,)))) print(len(x)) print(x[1][0])</code> Ans: 2 2 (½ Mark each)	1

7.	<p>Find the errors in the following code(if any) and correct the code by rewriting it and underlying the corrections:</p> <pre>x=int("enter value for x:") y= 5 for x in range[0,11]: if x = y: print(x+y) Else: print(x-y)</pre> <p>Ans:</p> <pre>x = int(input("enter value for x:")) y = 5 for x in range(0,11): if x == y: print(x+y) else: print(x-y)</pre>	2
8.	<p>Convert the following for loop into while loop:</p> <pre>N = int(input("Enter a number from1 to 25 :")) for k in range(1,N+1) : print(k, end = "\t")</pre> <p>Ans:</p> <pre>N = int(input("Enter a number from1 to 25 :")) k = 1 while k<=N : print(k, end="\t") k = k+1</pre>	(1/2 Mark each) 2
9.	<p>What is difference between actual parameter and formal parameter? Explain with suitable example.</p> <p>Ans:</p> <p>Arguments that are used in the function call are called actual arguments Or actual parameters. Their values are sent to the function. Actual arguments can be literal, variable or expression.</p> <p>Arguments that are received in the function(function header) are called formal arguments Or formal parameters. They can be variables only.</p> <p>Eg:</p> <pre>def power(a): # a is formal parameter print(a**2) X=10 power(X) # X actual parameter power(3) # 3 actual parameter</pre>	(Number input)- 1/2 Mark (Correct while loop)- 1 1/2 Marks 2

10.	<p>Give the output:</p> <pre>def allfunction(): global ch ch = 8 ch = ch+2 print(ch) ch = 23 allfunction()</pre> <p>Ans: 10</p>	2
11.	<p>Write a user defined function large() to find the maximum of 3 integers. Accept the integers from the user and pass it to the function large(). The function large() should return the maximum of the three. The result to be printed outside the function.</p> <p>Ans:</p> <pre>def large(x,y,z): if x > y and x > z : return x elif y > x and y > z : return y else: return z n1 = int(input("Enter first integer :")) n2 = int(input("Enter second integer :")) n3 = int(input("Enter third integer :")) print("Maximum =",large(n1,n2,n3))</pre>	3
12.	<p>Write a program to find the factorial of a number using recursion concept.</p> <p>Ans:</p> <pre>def Factorial(num): if num == 1: return 1 else : return num * Factorial(num - 1)</pre> <pre>n = int(input("Enter the number:")) F = Factorial(n) print("Factorial of ",n,"is", F)</pre>	3