

SHIVAJI COLLEGE, UNIVERSITY OF DELHI
DEPARTMENT OF COMPUTER SCIENCE
INTERNAL TEST (Academic Year 2023-24)

Name of the Course:	Generic Elective	Semester:	Ist
Name of the Paper:	Programming with Python	Paper Code:	2344001102
Faculty Name :	Dr. Ritu Meena	Duration:	2 hour
Maximum Marks:	24	Date of Test:	21 th November 2023

Class Test-2

SET-1


1. Write three differences between list and tuple data structure used in python. (3)
2. For the given string testStr = fun, perform the following "Programming is tasks using built-in functions(4)
 - (i) Replace the word 'fun' with 'easy' and print the new string
 - (ii) Using len() function, print the middle character present in testStr string
3. Construct logical expression for representing the following conditions: (3)
 - i. Salary is greater than 35000 and less than 45000.
 - ii. Gender is female or Age is less than 65.
 - iii. Length of variable name is greater than 15.

SET-2

1. Write a python function findMax(), that take two integer parameters and return the maximum of the both numbers. (3)
2. With the help of suitable examples define a dictionary object and explain the purpose of **items()** and **values()** methods used for dictionary objects. (5)
3. Identify valid and invalid identifiers as given below state the reason of invalid identifiers. (2)
 - i. Tottle_Marks
 - ii. Dob
 - iii. else
 - iv. Address 99

SET-3

1. When should we use 'set' data structure? Show how any two built-in functions used for 'set' data type. (5)
2. Write the output of the following string functions on the given string colors: (5)
colors = 'Red, green, blue, Red, Red, green'
 - i. print(colors.find('red'))


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Set-3

1. Identify valid and invalid identifiers as given below state the reason of invalid identifiers. (3)
 - (i) #ofObjets
 - (ii) No of elements
 - (iii) 4List
2. Find the output of below code, in case of errors explain the problem (2)
 - (i)

```
s1 = "Python Programming"
print(s1[0], s1[-1], s1[-18]))
```
 - (ii)

```
for i in range (1, 11, 2) :
print(i ** 2)
```
3. Write a python program to print the below series, and sum of the series. Number of terms should be taken from the user. (5)

1, 1/2, 1/4, 1/8 ... up to n terms

Set-4

1. Write a python program using nested loops that prints the following pattern (for n = 7 rows) Take the number of rows n as an input from the user. (5)

```

* *
* * * *
* * * * *
* * * * * *
* * * * *
* * * *
* *
* *
```
4. Explain the use of following strings module functions using suitable example (3)
 - (i) Isdigit()
 - (ii) swapcase()
 - (iii) split()
3. Identify valid and invalid identifiers as given below state the reason of invalid identifiers. (2)
 - (iv) studentEmail
 - (v) continuc

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