



**GOVT. POLYTECHNIC, AMRAVATI**  
(An Autonomous Institute of Govt. of Maharashtra)

Identity Code

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**END SEMESTER EXAMINATION**

**SAMPLE QUESTION PAPER-CURRICULUM-2018**

**PROGRAMME: DIPLOMA IN COMPUTER ENGINEERING**

**COURSE CODE & TITLE: CM5461 PROGRAMMING WITH PYTHON**

**Time Allowed: 3 Hours**

**Marks: 70**

**Instructions:**

1. Write your Identity Code Number on question paper
2. All questions are compulsory.
3. Illustrate your answer with neat sketches wherever necessary.
4. Use of non-programmable calculator is permissible.
5. Figures to the right indicate full marks.
6. Assume suitable additional data, - if necessary- and state the assumptions made.
7. Each sub-question in a question carries equal marks unless otherwise specified

**Q1 A) Attempt any TWO**

- a) List features of Python. (08)
- b) Describe variable declaration and initialization with example (R)
- c) Explain variable in Python with its rules and conventions for declaration? (U)

**Q2(A) Attempt any ONE**

- a) Mention the use of //, \*\*, % operator in Python (02)
- b) List different data types in Python (R)

**Q2(B) Attempt any TWO**

- a) Describe any two identity operators and two relational operators in Python (08)
- b) Design a python program to calculate area of triangle and circle and print the result (U)
- c) Explain any 4 built-in numeric data types in Python? (U/A)

**Q3(A) Attempt any ONE**

- a) State and explain any four built in function in python (04)
- b) List and explain operations on Tuples in python (R)

**Q.3(B) Attempt any TWO**

- a) Describe Set in python with suitable examples. (08)
- b) Show the output for the following: (U)

1. >>> a=[1,2,3]

>>>b=[4,5,6]



```
>>> c=a+b
2. >>>[1,2,3]*3
3. >>>t=['a','b','c','d','e','f']
```

```
>>>t[1:3]=['x','y']
>>>print t
```

- c) Describe any four methods of lists in Python

(U/A)

Q4.(A) Attempt any ONE.

(02)

)

- a) Define local and global variable  
b) Use of any four methods in math module

(R)

(R)

Q.4(B) Attempt any THREE.

(12)

)

- a) Describe module in Python with its advantages?  
b) Write a Python program to concatenate two strings  
c) Design a python program which will throw exception if the value entered by user is less than zero  
d) Discuss how try...except blocks is used for exception handling in Python with example

(U)

(A)

(A)

(U/A)

Q Attempt any TWO.

(08)

5(A)

- a) Define various modes of file object? Explain any two in detail  
b) Describe python File Handling operations on file.  
c) Define file object attributes of a file. Explain any two in detail.

(R)

(U)

(R/U)

Q Attempt any ONE

(04)

5(B)

- a) Write a program to create simple file and write "Hello World" init. To open a file in write mode and append Hello world at the end of a file.  
b) Write a python program to read contents of first.txt file and write same content in second.txt file

(A)

(A)

Q6 Attempt Any ONE

(02)

(A)

- a) List built in class attributes  
b) List different Object Oriented features supported by Python.

(R)

(R)

Q6 Attempt any THREE

(12)

(B)



- 60/1
- a) Illustrate class inheritance in Python with an example (U)
  - b) Write a program to demonstrate the use of method overriding. (A)
  - b) Design a class Employee with data members: name, department and salary. Create suitable methods for reading and printing employee information (A)
  - c) Describe class and object with suitable example. (U/A)





# GOVERNMENT POLYTECHNIC, AMRAVATI.

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CURRICULUM DEVELOPMENTCELL

PROFORMA –CDC-II

w.e.f.2018-19

## CO MAPPING FOR SAMPLE QUESTION PAPER

Academic Year/Term: Currienum 2018

Program: Computer Engineering

Course: Programming with Python Course Code: CM5461 Name of Faculty:  
S.S.CHAVHAN

Course Outcomes/ Q. No.(Marks)	Sub-Question	Marks allotted with level (R,U,A)						TOTAL MARKS
		A	b	c	D	e	f	
CO1 / Q.1 (08)	Any TWO	4R	4U	4 (R/U)				08(04)
CO2 / Q.2 (10)	A(Any ONE)	2R	(2R)					02(02)
	B(Any TWO)	4 U	4 A	4(U/A)				08(04)
CO3 / Q.3 (12)	A(Any ONE)	4 R	(4R)					04(04)
	B(Any TWO)	4U	4A	(4U/A)				08(04)
CO4 / Q.4 (14)	A(Any ONE)	2R	(2R)					02(02)
	B(Any THREE)	4U	4A	4A	(4U/A)			12(04)
CO5 / Q.5 (12)	A(Any TWO)	4R	4U	(4R/U)				08(04)
	A(Any ONE)	4A	(4A)					04(04)
CO6 / Q.6 (14)	A(Any ONE)	2R	(2R)					02(02)
	B(Any THREE)	4U	4A	4A	(4U/A)			12(04)
Total (70)								70(38)

Note: (\*) Indicates optional Marks

S.S.Chavhan

Name & sign. of course teacher

