GOVERNMENT POLYTECHNIC MUMBAI
TERM END EXAMINATION

Programme   : Information Technology (Sandwich Pattern)
Course Title : Python Programming

2:30 Hours / 60 marks   Enrolment No. | F | 0 | 2 | 4 | I | F | 0 | 0 | 1 |

Instructions:
1. Attempt all the questions.
2. Illustrate your answers with neat sketches wherever necessary.
3. Use of Mathematical Tables, Steam Table and Pocket Calculator (non-programmable) is permissible.
4. Marks on Right Hand Side indicate full marks for the question.
5. Assume suitable additional data, if necessary
6. CO=COURSE OUTCOMES, L=LEVELS

Q.1   Attempt any SIX   **12 Marks**
a. List features of python.   [CO-1, L-R]
b. Write syntax of defining for loop in python.   [CO-2, L-R]
c. List file operations in python.   [CO-3, L-R]
d. Define findall method in RE.   [CO-4, L-R]
e. State syntax to draw line one canvas.   [CO-5, L-R]
f. Define use of pass statement.   [CO-2, L-R]
g. State how to perform comments in python.   [CO-1, L-R]
h. Write syntax to create arc on canvas.   [CO-5, L-A]
i. Differentiate between read ( ), and readline ( ) in file handling. [CO-3, L-A]

Q.2   Attempt any THREE   **12 Marks**
a. Explain super ( ) method in inheritance.   [CO-2, L-U]
b. Develop RE to retrieve all words having 5 character length. [CO-4, L-U]
c. Develop python program to create entry widget for username and password also display the data entered by user.   [CO-5, L-A]
d. Explain any four operations on list with example.   [CO-1, L-A]

Q. 3   Attempt any THREE   **12 Marks**
a. Explain grid and place layout, with example.   [CO-5, L-U]
b. Define search ( ) method in RE and create RE to retrieve mobile number with example.   [CO-4, L-U]
c. Explain seek ( ) and tell ( ) functions in file handling. [CO-3, L-A]
d. Define dictionary with any two basic operations on it.   [CO-1, L-A]

Q. 4   Attempt any FOUR   **12 Marks**
a. Write a python program that takes a number and checks whether it is a palindrome or not.   [CO-2, L-A]
b. Describe self variable with example in class.   [CO-2, L-U]
c. Create a regular expression to retrieve all words staring with 'an' or 'ok'.
                                                             [CO-4, L-A]
d. Explain with statement in file handling with example.   [CO-3, L-U]
e. Differentiate between list and tuple data type with example. [CO-1, L-A]

Q. 5   Attempt any TWO   **12 Marks**

a. Describe constructor in class with example in python.   [CO-2, L-A]
b. Develop python program to create 3 check button to select course and display
   the option selected by user.   [CO-5, L-A]
c. Give syntax to create function in python and explain : (i) Keyword argument
   (ii) Variable length argument.   [CO-2, L-A]

****End****