



Term End Examination 2025-2026

Programme – M.Tech.(RA)-2025

Course Name – Python Programming for Automation

Course Code - MEC27504 (T)

(Semester II)

Library
Brainware University
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Time : 2:0 Hours

Group-A

(Multiple Choice Type Question)

$$1 \times 10 = 10$$

1. Choose the correct alternative from the following :

(i) Predict the correct option to delete a file in python.

- a) del(fp) b) fp.delete()
c) os.remove('file') d) os.delete('file')

(ii) Identify which of the following is used to access single character of string.

- [illegible]

(iii) Select the keyword which is used to define the block of statement in the function.

- a) Function b) def
c) func d) pi

(iv) Select the correct option that contains the predefined Python codes.

- a) Function
b) Pi
c) module
d) lambda

(v) Determine the output of `print(math.pow(3, 2))`.

- a) 9
b) None
c) 9
d) None of the mentioned

(vi) Select the purpose of built-in function in context of classes.

- a) Determines the object name of any value
- b) Determines the class identifiers of any value
- c) Determines class description of any built-in type
- d) Determines class description of any user-defined built-in type

(vii) Calculate the following $X=4.5$ $y=2$ print $x//y$.

- a) 2 b) 2.25
c) 0.25 d) 0.5

(viii) Assess the option that is a valid variable name in Python.

- a) 2names b) _myVar
c) global d) lambda

(ix) Evaluate the output of the following Python code `print((3, 4) * 2)`.

a)
(3,4)

b) (3, 4, 3, 4)

c) (3,3,4,3)

d) (3,3,4,4)

(x) Devise the purpose of the following Python statement `do x, y = 5, 10`.

a) Creates two variables, x and y, with values 5 and 10, respectively

b) Compares the values of x and y and returns True if they are equal

c) Adds the values of x and y and stores the result in a new variable

d) Raises a syntax error because of the comma

Group-B

(Short Answer Type Questions)

3 x 5=15

2. Describe the assignment statements and illustrate the characteristics of membership operator. (3)
3. Deduce the different numeric data types in Python. (3)
4. Describe a proper Python program how to find the factorial value any number entered through the keyboard. (3)
5. Describe a program that uses simple inheritance between classes Base and Derived. If there is a method in Base class, how do you prevent it from being overridden in the Derived class. (3)
6. Explain the use of the if statement in Python. (3)

OR

Explain string concatenation to combine two strings in Python.

(3)

Group-C

(Long Answer Type Questions)

5 x 3=15

7. Explain while loop & for loop with syntax and example in detail. (5)
8. Explain how can you automate sending emails in Python. (5)
9. Compile a Python program to create class BWU with attributes like class variable cnt, instance variables x and y, instance methods get_value and print_value. (5)

OR

Express a python program to implement Student class which has method to calculate CGPA. Assume suitable class variables. (5)