

PSG COLLEGE OF ARTS & SCIENCE  
(AUTONOMOUS)

BSc DEGREE EXAMINATION MAY 2022  
(Fifth Semester)

Branch – COMPUTER TECHNOLOGY

PYTHON PROGRAMMING

Time: Three Hours

Maximum: 75 Marks

SECTION-A (10 Marks)

Answer ALL questions

ALL questions carry EQUAL marks (10 x 1 = 10)

1. Which one in the following is not a valid Python operator  
(i) + (ii) += (iii) ^ (iv) ++
2. The \_\_\_\_\_ statement executed in Python but nothing happens.  
(i) break (ii) continue (iii) pass (iv) comment
3. Which one in the following does not return multiple values from a function?  
(i) List (ii) Tuple (iii) Set (iv) Dictionary
4. var1=[(1,1),(2,4),(3,9)]. What is the type of data hold by the variable var1?  
(i) Array of tuples (ii) Tuples of lists (iii) List of tuples (iv) Invalid type
5. Which of the following about a dictionary is false?  
(i) keys access values (ii) values access keys  
(iii) not ordered (iv) mutable
6. \_\_\_\_\_ is used to create an object.  
(i) new (ii) constructor (iii) class (iv) set
7. Which of the following is not a type of inheritance?  
(i) Multi-level (ii) Multiple  
(iii) Double-level (iv) Multi-path
8. Membership operator when overloaded is invoked on \_\_\_\_\_.  
(i) object (ii) class (iii) method (iv) attribute
9. The finally block executed \_\_\_\_\_.  
(i) on no exception (ii) on exception (iii) never (iv) always
10. An exception is \_\_\_\_\_.  
(i) a module (ii) a standard module (iii) an object (iv) a function

SECTION - B (25 Marks)

Answer ALL questions

ALL questions carry EQUAL Marks (5 x 5 = 25)

11. a) What are identifiers? List the rules to name an identifier in Python.  
(OR)  
b) Illustrate if-else statement with an example.
12. a) Explain any five commonly used string methods in Python.  
(OR)  
b) Write a Python program to illustrate nested list.
13. a) Write a Python program to print the minimum and maximum value in a dictionary.  
(OR)  
b) Illustrate the difference between the public and private variables in a class.

Cont...

14. a) What did you mean by bottom-up approach? Explain.  
(OR)

b) Give a note on advantages of operator overloading.

15. a) Illustrate the syntax error in Python.

(OR)

b) Write a python program that validates the user's input.

**SECTION -C (40 Marks)**

Answer ALL questions

ALL questions carry EQUAL Marks

(5 x 8 = 40)

16. a) Explain the various types of operators in Python.

(OR)

b) Discuss the various looping statements available in Python with examples.

17. a) Write a Python program to demonstrate the slice operation on string objects.

(OR)

b) Discuss about the various operations performed on a tuple variable.

18. a) How will you add, modify and delete values in a dictionary? Explain with examples.

(OR)

b) Explain the build-in function to check, get, set and delete the class attributes.

19 a) Discuss about various types of inheritance in Python.

(OR)

b) Explain about operator overloading with a Python code sample.

20 a) Illustrate try-except block in Python programming.

(OR)

b) How will you deliberately raising exceptions in Python? Explain with an example.

Z-Z-Z END