Roll No. ....   Total Printed Pages - 8

F - 827

M. Sc. (IT) (Third Semester)
EXAMINATION, Dec. - Jan., 2021-22
(New Course)
Paper Second
PYTHON PROGRAMMING LANGUAGE

Time : Three Hours   *[Maximum Marks : 100*
                                 [Minimum Pass Marks : 40

Note : Attempt all sections as directed.

Section - A

(Objective / Multiple Choice Questions)

Note : Attempt all questions.

                                    (1 mark each)

Choose the correct / most appropriate answer and write it in your answer book.

1. Who developed Python Programming Language ?

   (A)   Wick van Rossum

   (B)   Rasmus Lerdorf

   (C)   Guido van Rossum

   (D)   Niene stom

2. Which keyword is used for function in Python Language?

   (A)   Function

   (B)   Def

   (C)   Fun

   (D)   Define

3. Python supports the creation of anonymous functions at runtime using a construct called ____.

   (A)   pi

   (B)   anonymous

   (C)   lambda

   (D)   None of the above

4. Which of the following is the truncation division operator in python ?

   (A)   I

   (B)   //

   (C)   /

   (D)   %

5. Which of the following is not core data type Python Programming?

   (A)   Tuples

   (B)   Lists

   (C)   Class

   (D)   Dictionary

6. Is python code compiled or interpreted?

   (A)   Python code is both compiled and interpreted

   (B)   Python code is neither compiled nor interpreted

   (C)   Python code is only compiled

   (D)   Python code in only interpreted

7. Which module in the python standard library pases options received from command line?

   (A)   getarg

   (B)   getopt

   (C)   main

   (D)   OS

8. What will be the output of the following python code?

   ("abc.DEF", capitalize U)

   (A)   Abc .def

   (B)   abc.def

   (C)   Abc Def

   (D)   ABC.DEF

9. Which of the following items are present in the function header ?

   (A)   Function name

   (B)   Parameter List

   (C)   Return value

   (D)   Both (A) and (B)

       P.T.O.

10. To shuffle the list (say list1) what function do we use?

   (A)   list1.shufflle()

   (B)   shuffle (list1)

   (C)   random.shuffle(list1)

   (D)   random.shuffleList (list1)

11. Which of the following is exit control loop in python?

   (A)   for loop   (B)   while loop

   (C)   do while loop   (D)   None of the above

12. Which of the following operators is the correct option for power (ab)?

   (A)   a ^ b   (B)   a**b

   (C)   a^^b   (D)   a^*b

13. What will be the output of the following python code ?

```
i = 0
while i < 5:
print (i)
i + = 1
if i == 3:
break
else :
print (0)
```

   (A)   0 1 2 0   (B)   0 1 2

   (C)   an error   (D)   None of the mentioned

14. What are the main types of functions in python?

    (A)   System function

    (B)   Custom function

    (C)   Built-in function and user defined function

    (D)   User function

15. If return statement is not used inside the function, the function will return .

    (A)   None

    (B)   0

    (C)   Null

    (D)   Arbitary value

16. Which of the following function headers is correct ?

    (A)   def fun (a = 2, b = 3, c)

    (B)   def fun (a = 2, b, c = 3)

    (C)   def fun (a, b = 2, c = 3)

    (D)   def fun (a,b, c = 3, d)

17. Which of the following is a python tuple ?

    (A)   [1, 2, 3]

    (B)   (1, 2, 3)

    (C)   { 1, 2, 3}

    (D)   { }

18. Which mode create new file if the file does not exist ?

    (A)   Write mode

    (B)   Append mod

    (C)   Both (A) and (B)

    (D)   None of the above

19. _____ are the arguments passed to a function in correct positional order.

    (A)   Required arguments

    (B)   Keyword arguments

    (C)   Default arguments

    (D)   Variable-length arguments

20. readlines( ) method return _____

    (A)   String

    (B)   List

    (C)   Dictionary

    (D)   Tuple

खण्ड - ब

Section - B

(Very Short Answer Type Questions)

(2 marks each)

Note : Attempt all questions Write answer in 2-3 sentences.

1. What is python interpreter?
2. Explain Script Mode.
3. Define Boolean Expression.
4. What is counting in python?
5. What is Dictionaries?
6. Explain List Slices.
7. What do you understand by call by reference?
8. What do you understand by Boolean Function?
9. What is Pile in python?
10. Define Pickling.

खण्ड - स

Section - C

(Short Answer Type Questions)

(3 marks each)

Note : Attempt all questions.

1. What are the key features of Python?
2. Define a variable and write down the rules for naming variable.

F - 827

3. What do you understand by String Slices?
4. Explain chained and nested conditions.
5. Explain Memos and Global Variables in Python.
6. What do you understand by Tuples in Python?
7. Explain Stock diagrams.
8. What do you mean by function? Write two math functions.
9. What do you mean by programmer? Defined data type.
10. Explain catching exceptions.

खण्ड - द

Section - D

(Long Answer Type Questions)

(6 marks each)

Note : Attempt all questions. Write answer in 150 words.

1. What do you understand by python? What are common built in data types in python?
2. What is List? What is the difference between Lists and Tuples?
3. Explain Recursive function. What do you understand by infinite recursion?
4. What do you understand by object oriented programming? also explain Inheritance and Polymorphism.
5. Explain looping in python. Write a program to travers with a for loop.

F - 827