Code : 303105

BCA 1st Semester Exam., 2019

PYTHON PROGRAMMING

(Elective—1)

Time : 3 hours   Full Marks : 60

Instructions :

(i) *The marks are indicated in the right-hand margin.*

(ii) *There are SEVEN questions in this paper.*

(iii) *Attempt FIVE questions in all.*

(iv) *Question Nos. 1 and 2 are compulsory.*

1. Choose the correct answer of the following (any *six*) :   2×6=12

   (a) What is the output of the following?

   print ('The sum of {0} and {1} is {2}'.format(2, 10, 12))

      (i) The sum of 2 and 10 is 12

      (ii) Error

      (iii) The sum of 0 and 1 is 2

      (iv) None of the above

   (b) For tuples and list which is correct?

      (i) List and tuples both are mutable

      (ii) List is mutable whereas tuples are immutable

      (iii) List and tuples both are immutable

      (iv) List is immutable whereas tuples are mutable

   (c) Which among them is used to create an object?

      (i) A class

      (ii) A function

      (iii) A method

      (iv) A constructor

   (d) Write how to create a frame in Python.

      (i) Frame = new.window( )

      (ii) Frame = frame.new( )

      (iii) Frame = Frame( )

      (iv) Frame = window.new( )

(e) What is output for the following?

a = ['bca', mca', 'mba']

''.join(a)

(i) ['mbamcamba']

(ii) 'bcamcamba'

(iii) ['bca mca mba']

(iv) 'bca mca mba'

(f) Which of the following is the truncation division operator?

(i) /

(ii) %

(iii) //

(iv) |

(g) Suppose list1 is [3, 4, 5, 20, 5, 25, 1,3]. What is list1 after list1.reverse( )?

(i) [3, 4, 5, 20, 5, 25, 1, 3]

(ii) [1, 3, 3, 4, 5, 5, 20, 25]

(iii) [25, 20, 5, 5, 4, 3, 3, 1]

(iv) [3, 1, 25, 5, 20, 5, 4, 3]

(h) How are variable length arguments specified in the function heading?

(i) One star followed by a valid identifier

(ii) One underscore followed by a valid identifier

(iii) Two stars followed by a valid identifier

(iv) Two underscores followed by a valid identifier

(i) What are the two main types of functions?

(i) Custom function

(ii) Built-in function and user defined function

(iii) User function

(iv) System function

(j) Which of the following is the use of id( ) function in python?

(i) Id returns the identity of the object

(ii) Every object doesn't have a unique id

(iii) All of the above

(iv) None of the above

2. Answer any *three* of the following :   4×3=12

(a) What is Python?

(b) How is Python interpreted?

(c) Mention five benefits of using Python.

(d) What are the supported data types in Python?

(e) What is dictionary in Python?

3. Differentiate between tuple and list.   12

4. What is function? Explain how a function is defined in Python.   12

5. What are the loop control statements in Python?   12

6. What is a module in Python and how is module imported to the program?   12

7. What is regular expression in Python? Explain.   12

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