

Total No. of Questions : 5]

SEAT No. :

P2142

[Total No. of Pages : 2

[5803]-505

BBA(CA)

CA-504 : PYTHON

(2019 Pattern) (Semester - V)

Time : 2½ Hours]

[Max. Marks : 70

Instructions to the candidates:

- 1) *All question is compulsory.*
- 2) *Figures to the right indicate full marks.*

Q1) Attempt any Eight of the following :

[8 × 2 = 16]

- a) What are the properties of a Dictionary?
- b) Write the use of an import statement with an example.
- c) Differentiate between Python list and NumPy array.
- d) What is scikit-learn?
- e) Write the definition of class method.
- f) Write the syntax of the Raise statement & explain it.
- g) List out Geometry Management methods.
- h) What is Tkinter in Python?
- i) Break and pass statement in Python.
- j) Write any two common exceptions in Python.

Q2) Attempt any Four of the following :

[4 × 4 = 16]

- a) What is Python? What are the benefits of using Python?
- b) Name any five built in modules in Python.
- c) Write in brief anonymous functions.
- d) What is inheritance? Write its benefits and syntax.
- e) Explain frame widget in Tkinter with an example.

P.T.O.

Q3) Attempt any Four of the following : **[4 × 4 = 16]**

- a) What are lists and tuples? What is the key difference between the two?
- b) What are the common built in data types in Python?
- c) Which are built in exceptions in Python?
- d) Write the principles of keras.
- e) Write a Python program to display current date and time.

Q4) Attempt any Four of the following : **[4 × 4 = 16]**

- a) Which are the built in exceptions in Python?
- b) Explain the features of pandas in Python?
- c) Define an abstract class shape and its subclass (square / circle). The subclass has an init function which takes an argument (length/radius) Both classes have an area & volume function which can print the area and volume of shape where the area of shape by default 0.
- d) Write a Python program to check whether a number is in a given range.
- e) Write a Python class to find the validity of a string of parentheses, '(', ')', '{', '}', '[', ']', '''. These brackets must be closed in the correct order for example "()" and "() [] { }" are valid but "[]", "{(D]}" and "{ { { " are invalid.

Q5) Write a short note on Any Two of the following : **[2 × 3 = 6]**

- a) Package
- b) Assertion
- c) Tuple

