

Total No. of Questions : 5]

SEAT No. :

**PC1170**

**[6317]-305**

[Total No. of Pages : 2

**T.Y.B.B.A. (C.A.)**

**CA -504 : PYTHON**

**(2019 Pattern) (Semester-V)**

*Time : 2½ Hours]*

*[Max. Marks : 70*

*Instructions to the candidates:*

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

**Q1)** Attempt any eight of the following.

**[8×2=16]**

- a) Write any three functions of Math module.
- b) What is the use of random () in random module?
- c) Name any four widgets available in Tkinter
- d) What is class variable?
- e) What is the use of try-finally block?
- f) Write the syntax of exception.
- g) State the features of Keras.
- h) What are the properties of a Python list?
- i) What is the use of pass and break statement?
- j) What is the difference between append () and extend () methods in Python lists?

**Q2)** Attempt any four of the following.

**[4×4=16]**

- a) What is dictionary? Explain three built-in dictionary functions with examples.
- b) What are the differences between global and local variables in Python? Provide examples.
- c) Explain IS-A relationship and HAS-A relationship with example.
- d) Explain frame widget in tkinter with example.
- e) What is Data Visualization? List any 4 data visualisation libraries.

**P.T.O.**

**Q3)** Attempt any four of the following.

**[4×4=16]**

- a) Write a Python script using class to reverse the string word by word.
- b) How does Python static method works?
- c) Explain the methods for Geometry Management.
- d) Describe string manipulation techniques in Python with examples.
- e) Write a Python program that accepts a list of numbers and returns a new list containing only the even numbers.

**Q4)** Attempt any four of the following.

**[4×4=16]**

- a) What is Python? What are the benefits of using Python?
- b) Write a Python program to check if a string is a palindrome.
- c) Explain user defined functions with example.
- d) Write a Python GUI program to accept dimension of a cylinder and display the surface area and the volume of cylinder.
- e) Explain the delete () and insert () method of entry widget.

**Q5)** Write short note on any two.

**[2×3=6]**

- a) Python package
- b) Class method
- c) Raise statement

