

(AUTONOMOUS)
MSc DEGREE EXAMINATION MAY 2018
(Sixth Semester)

Branch –**SOFTWARE SYSTEMS**
(Five year integrated)

CORE ELECTIVE - I : PROGRAMMING IN PYTHON

Time: Three Hours

Maximum: 75 Marks

SECTION -A (30 Marks)

Answer **ALL** questions

ALL questions carry **EQUAL** Marks (5 x 6 = 30)

- 1 a Write short notes on variables and keywords in Python.
OR
- b Explain the following facilities in Python :
(i) Assignment statements (ii) Putting comments
- 2 a Give the syntax of import, from-import and extended import statements with example.
OR
- b How to define and invoke a function? Explain.
- 3 a Explain the use of compound expression in conditional constructs.
OR
- b List out 5 various string functions with examples.
- 4 a Explain list operations with suitable illustrations.
OR
- b Describe the uses of cmp (), len () and tuple () functions for handling tuples.
- 5 a Write about the Exception model of python.
OR
- b Discuss on the frame and menu GUI components.

SECTION -B (45 Marks)

Answer any **THREE** questions

ALL questions carry **EQUAL** Marks (3 x 15 = 45)

- 6 Describe the various Arithmetic, Relational and Logical operators with coding examples.
- 7 Explain the following functions :
(i) fabs () (ii) pow () (iii) sin () (iv) ceil () (v) random ()
- 8 Write a program to receive a string from the user and to do the following operations :
(i) Check whether given string is alphabet or not
(ii) Strip all leading and trailing spaces
(iii) Convert to uppercase
(iv) Split into words using space as delimiter
- 9 Write in detail about various dictionary related functions and methods.
- 10 Explain the following : (i) Dir functions (ii) Text widgets (iii) Check buttons.

Z-Z-Z

END