END TERM EXAMINATION

THIRD SEMESTER (BCA) JANUARY-2024 Paper Code: BCAT-211

Time: 3 Hours

Subject: Basic of Python Programming

Maximum Marks:75 Note: Attempt five questions in all including Q.no. 1 which is compulsory. Select one question from each unit. Q1 Write short notes on the following: (Any Five) (5x5=25)Elaborate - "Python is interpreted as well as integrated programming language"? (b) How unary operator different from binary operator? Give example of each. (c) Explain the use of _init_ method in python programming? (d) Differentiate between list and tuple? (e) Explain the use of pandas library with an example? Justify the significance of self keyword? Give an example? (f) UNIT-I Explain while loop and for loop with an example. Elaborate difference between Q2 (a) Explain membership operator, identity operator, escape sequence, slicing with an (b) (8) example? Perform following slicing operation on string "PYTHON PROGRAMMING": Q3 (a) string[2:15:2], string[-3:- 16:-2], string[:13], string[6:], string[:-2], string[3:14:3] (b) Write a program to print stars in right triangle pattern (value enter by user)? (6.5) UNIT-II Q4 (a) Differentiates between mutable and immutable objects with examples? (4.5)(b) Explain tuple, list, sets, dictionary in python? Each with example. (8)Explain list methods- append, extend, remove, index, pop, insert, sort? Give Q5 (a) example of each? (6.5)Explain dictionary methods- len, str, clear, copy, update, get? Give an example of (b) each. UNIT-III Explain the concept of class, objects, functions, data member with help of program? Also Q6 Explain call by Value and call by reference? (12.5)Explain the following terms with examples: Q7 (12.5)Scope and lifetime of a function. (i) (ii) Importing modules (iii) Formal, Actual, Default, keyword arguments (iv) Concept of modules UNIT-IV Elaborate the importance of pip command to install any library in python? (4.5) Q8 (a) By using NumPy library in program, perform the following operations:-(b) Creation of 1D array, Re-shaping of an Array, Array Slicing, Aggregate Operations. (8) Explain file modes of file handling? Give example of each? Q9 (a) Explain the use of NumPy, Pandas, Matplotlib in python programming? Give (4.5)(b) example of each? (8)*****

