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SECOND YEAR (SYBCA)
BCA24102: Python Programming
(Semester IV)

Program: BCA
Program Specific: BCA (SCIENCE)
Course Type: MC
Paper: I

Credits: 2
Time: 2 Hours
Max. Marks: 30
SET: A

Instructions to the candidate:

- 1) All questions are compulsory.
- 2) Figures to the right indicate full marks.
- 3) Draw a well labelled diagram wherever necessary.

Q1) Answer the following

[5 X 1= 5]

- a. Write any one difference between a list and a tuple.
- b. How to give a single line comment?
- c. State the purpose of the elif statement.
- d. Write a syntax to define a function.
- e. Enlist two types of loops in Python.

Q2) Answer the following (Attempt any 5/7)

[5 X 2 =10]

- a. Write a python program to check if a number is even or odd.
- b. Write a Python program to find the largest element in a list.
- c. Explain how to create and modify a dictionary.
- d. Distinguish between Dictionary and Set.
- e. How will you do slicing operation on string?
- f. Explain range () function?
- g. How do you add an element to a set in Python?

Q3) Answer the following/Write short notes on following (Attempt any 2/4)

[2 X 5 = 10]

- a. Discuss Write a Python script to generate and print a dictionary that contains a number (Between 1 and n) in the form (x, x*x).
Sample Dictionary (n = 5)
Expected Output: {1: 1, 2: 4, 3: 9, 4: 16, 5: 25}
- b. Explain the use of try-except blocks in Python.
- c. Explain the with statement in file handling with example.
- d. Explain Set Operations.

Q4) Answer the following (Attempt any 1/2)

[5 X 1 = 5]

- a. Write a Python program that reads a file and counts the number of lines.
- b. State key features of Python that make it a popular programming language.

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