SET - 1 R19 Code No: R193104D

III B. Tech I Semester Supplementary Examinations, June/July-2022 SOFT COMPUTING TECHNIQUES AND PYTHON PROGRAMMING

(Electronics and Communication Engineering)

Time: 3 hours Max. Marks: 75

Answer any FIVE Questions ONE Question from Each un	ii
All Questions Carry Equal Marks	

UNIT-I

- a) What is the need of python programming? Explain. 1. [8M]
 - b) Explain how to input a value and display the output on to the [7M] screen with suitable examples.

(OR)

- 2. a) What are the decisions making statements used in python? [8M] Explain with suitable examples
 - b) What is the use of range() function in python? Explain with [7M] examples.

UNIT-II

- 3. a) Write a Python program that counts the number of occurrences of [8M] a letter in a string, using dictionaries.
 - b) What type of parameter passing is used in Python? Justify your [7M] answer with sample programs.

(OR)

- a) Write a Python function that prints all factors of a given number. 4. [8M]
 - b) Write in brief about Dictionary in python. Write operations with [7M] suitable examples.

UNIT-III

- a) What are the different Widget Classes available? Explain. 5. [8M]
 - b) Explain basic object oriented programming principles.

(OR)

[7M]

[7M]

- a) How to achieve Data Hiding in Python? Explain with an example. 6. [8M]
 - b) Explain the importance of Tkinter to exhibit event driven model. [7M]

UNIT-IV

- 7. a) Explain the characteristics of Soft Computing in detail. [8M][7M]
 - b) Explain recent trends in soft computing.

- 8. a) Explain Soft Computing Methods.
 - [8M] b) Draw a neat diagram of fuzzy logic architecture and explain the [7M]
 - components.

UNIT-V

- 9. a) Write the use cases and applications of Genetic Algorithms. [8M]
 - b) Explain the differences between Fuzzy Sets and Rough Sets.

(OR)

- a) Explain about Decision Tables and explain its attributes. 10. [8M]
 - Knowledge Representation System? Explain the [7M] b) What is significance of attributes.

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