

BACHELOR OF TECHNOLOGY (C.B.C.S.) (2021-COURSE)
B. Tech. Sem - II E&C :SUMMER- 2022
SUBJECT : PYTHON PROGRAMMING

Day : Friday
Date : 5/8/2022

S-24092-2022

Time : 10:00 AM-01:00 PM
Max. Marks : 60

N.B.

- 1) All questions are **COMPULSORY**.
 - 2) Figures to the **RIGHT** indicate **FULL** marks.
 - 3) Assume suitable data **WHEREVER** necessary.
 - 4) Draw neat diagram **WHEREVER** necessary.
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Q.1 Differentiate between the datatypes, list tuple and dictionaries, also explain the concepts of list comprehensions. (10)

OR

Q.1 Explain Python and explain the different types of data types in Python each with an example. (10)

Q.2 Write a short note on Python File Handling also explain the concept of Python Modules and Functions. (10)

OR

Q.2 Write a Python Program to check if a number is +ve, -ve or zero. Also draw the flow chart for above program. (10)

Q.3 Explain different types of Exception and differentiate between checked exceptions, unchecked exception. (10)

OR

Q.3 What is meant by Exception? Explain different types of Exception with their Hierarchy Diagram. (10)

Q.4 Define OOP and explain in detail object oriented program with example. (10)

OR

Q.4 Write a Python program to demonstrate multiple inheritance with flowchart. (10)

Q.5 Define Networking in threads also write a short note on i) Kernel Threads and ii) User space. (10)

OR

Q.5 What are the different types of threads in python? Explain the difference between i) Kernel Threads and ii) User Space with its advantages and disadvantages. (10)

Q.6 Explain the concept of NumPy in testing, Debugging and Sharing data using sockets. (10)

OR

Q.6 Describe arrays and array manipulation with example. (10)
