

BACHELOR OF TECHNOLOGY (CBCS) (2021-COURSE)

Computer Science & Engineering-AI&ML

B. Tech. Sem - III :SUMMER : 2023

SUBJECT : ITC-I: PYTHON PROGRAMMING

Day : Thursday

Time : 02:30 PM-05:30 PM

Date : 11-05-2023

S-23936-2023

Max. Marks : 60

N.B.:

- 1) All questions are **COMPULSORY**.
- 2) Figures to the right indicate **FULL** marks.
- 3) Draw neat and labeled diagram **WHEREVER** necessary.
- 4) Assume suitable data if necessary.

Q. 1 Describe Arithmetic Operators, Assignment Operators, Comparison operator [10]
with examples.

OR

Q.1 What is if-else statement in python? Write a python program check given [10]
number is odd or even with conditional loop.

Q.2 What is inheritance? Explain different types of inheritance with example. [10]

OR

Q.2 Explain class and object with help of example. Write a python program to [10]
calculate area and perimeter of different shapes using polymorphism

Q.3 What is Packages? Explain different types packages in python. [10]

OR

Q.3 Discuss the following dictionary methods with an example: [10]

- | | | |
|-------------|-------------|------------|
| a) get() | b) keys() | c) pop() |
| d) Update() | e) values() | f) items() |

Q.4 a) What is computer network? What is the syntax for networking python? [05]

b) Which library is used for network programming? [05]

OR

Q.4 Differentiate between TCP and UDP? How do you create TCP connection in [10]
python?

Q.5 What is multithreading and multiprocessing? What are benefits of [10]
multithreading?

OR

Q.5 Explain concept of thread and process? What are different models of [10]
multithreading?

Q.6 Explain Django Architecture with neat diagram. [10]

OR

Q.6 What is Django-admin and manage.py and explain its commands? [10]

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