

Enrolment No. /Seat No.: _____

GUJARAT TECHNOLOGICAL UNIVERSITY
MCA INTEGRATED – SEMESTER VIII- EXAMINATION –WINTER-2024

Subject Code: 4480606

Date: 28/11/2024

Subject Name: Advanced Python

Time:02:30 PM TO 05:00 PM

Total Marks: 70

Instructions:

- 1. Attempt all questions.**
- 2. Make Suitable assumptions wherever necessary.**
- 3. Figures to the right indicate full marks.**
- 4. Use of simple calculators and non-programmable scientific calculators are permitted.**

- Q.1** (a) Explain finditer() method with example. **04**
(b) Discuss Global Interpreter Lock. **03**
(c) Explain s.listen() and s.accept() methods. **04**
(d) What is semaphore? **03**
- Q.2** (a) What are Sockets? Explain connection oriented and connection less Sockets. **07**
(b) Explain urlopen() and urlretrive() methods with example. **07**
- OR**
- (b) Explain ConnectionObject and any two methods associated with it. **07**
- Q.3** (a) Compare single thread and multithreaded execution. **07**
(b) Write short note on WSGI. **07**
- OR**
- Q.3** (a) Write a program to read email ids from a file using regular expressions. **07**
(b) List various visualization techniques used to get insight into data. Explain any one in details. **07**
- Q.4** (a) What are extensions? Why one should extend python? Give reasoning. **07**
(b) Discuss a checklist to know about data set with its importance. **07**
- OR**
- Q.4** (a) Discuss searching and replacing with sub() and subn() methods. Write a program for the same. **07**
(b) What is the difference between Django Project and Django App? List steps to create basic Project. **07**
- Q.5** (a) Discuss approaches for measuring the Performance of Predictive Models. **07**
(b) Differentiate thread and threading modules. **07**
- OR**
- Q.5** (a) Write a program to demonstrate use of Unicode with CGI. **07**
(b) List various files created for Django project with its roles. **07**
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