

GUJARAT TECHNOLOGICAL UNIVERSITY**MCA INTEGRATED– SEMESTER VIII- EXAMINATION –SUMMER-2022****Subject Code: 4480606****Date:07/06/2022****Subject Name: Advanced Python****Time: 10:30 AM to 01:00 PM****Total Marks: 70****Instructions:**

1. Attempt all questions.
2. Make Suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

- Q1. (a)** 1. Write regular pattern/expression which will match according to giving data. **04**
 Data: Kiran is 45 and Jay is 23
 Mohan is 24 and Lion is 12
 I. Find out all the name. II. Find out all the age.
2. Explain Global Interpreter Lock(GIL) in detail. **04**
- (b)** 1. Explain how to process JSON data in python using suitable example. **03**
 2. Explain WSGI with its advantage. **03**
- Q2. (a)** Explain in detail about visualization techniques used for data visualization. **07**
(b) Explain following methods of re module. search(), findall(), sub(), and subn() with example. **07**
- OR**
- (b)** 1. Explain processing of comma separated values in Python using split() and CSV module **03**
 2. Write down regular expression for following requirements. **04**
 I. Find all the word from string which contain vowels.
 II. Find all the words from string which contains only numbers.
- Q3. (a)** Explain connection object with methods and example. **07**
(b) What is extension? List advantages and disadvantages of extensions. List steps used to create an extension in python. **07**
- OR**
- Q3. (a)** Differentiate between following. **07**
 I. thread and threading module
 II. Single and Multi-threading
- (b)** Explain execute(), executemany(), fetchone(), fetchall() and fetchmany() cursor object methods. **07**
- Q4. (a)** Discuss urlopen(), urlunparse() and urljoin() methods of urlparse. **07**
(b) List and explain web address components in detail. **07**
- OR**
- Q4. (a)** Discuss urlreterive() and urlparse() methods with example. **07**
(b) Explain in brief holdout, n-fold and cross-validation methods. **07**
- Q5. (a)** Write down basic steps to create any simple project in Django with example. **07**
(b) Discuss approaches for measuring the Performance of Predictive Models. **07**
- OR**
- Q5. (a)** Attempt following.
 I. Define Django Shell. **02**
 II. Define Syncdb. **02**
 III. What is the difference between a Django project and an app? **03**
- (b)** Discuss a checklist to know about data Set with its importance. **07**