

**GUJARAT TECHNOLOGICAL UNIVERSITY**  
**MCA INTEGRATED– SEMESTER - VIII EXAMINATION- SUMMER-2023**

**Subject Code: 4480606****Date: 22/06/2023****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.
4. Use of simple calculators and non-programmable scientific calculators are permitted.

- Q.1** (a) i) Write down regular expression for following requirements. **04**  
 a. Find all the word from string which start with vowels.  
 b. Find all the words from string which contains numbers.
- ii) Explain Terms: Django Shell, Global Interpreter Lock(GIL). **04**
- (b) Discuss similarity and dissimilarity between re.search() and re.match(). **06**
- Q.2** (a) i) Explain sub(), and subn() using suitable example. **04**  
 ii) Differentiate between Django app with project. **03**
- (b) Explain how to process CSV file in python ( use file structure: Cityname,Statename, CountryName) **07**
- OR**
- (b) Write python program to perform basic Read and update operation on Department Table (Deptno, Name, Location). **07**
- Q.3** (a) i) Differentiate between CGI and WSGI. **04**  
 ii) Why you need to extend python code? **03**
- (b) Explain how to manage cursor in python. Give suitable example. **07**
- OR**
- Q.3** (a) i) Which module is better, Thread or threading? Why? **04**  
 ii) List advantages and disadvantages of extensions. **03**
- (b) Explain the Twitter service in your own words. **07**
- Q.4** (a) Compare urlparse(), urlunparse() and urljoin() functions. **07**
- (b) List and explain web address components. Give suitable example **07**
- OR**
- Q.4** (a) List uses of web crawler. How to parse web content? **07**
- (b) How to fetch content of web page using functions of urllib. **07**
- Q.5** (a) Explain in brief steps to create Django project. How to create super user in Django? **07**
- (b) i) Discuss a checklist to know about data Set with its importance. **04**  
 ii) Discuss cross validation method. **03**
- OR**
- Q.5** (a) What is Django? Discuss any two uses of manage.py. **07**
- (b) i) What is the difference between holdout and n-fold methods **04**  
 ii) Discuss Parallel coordinates plot data visualization technique. **03**

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