

GUJARAT TECHNOLOGICAL UNIVERSITY
MCA INTEGRATED– SEMESTER - VIII EXAMINATION –WINTER-2021

Subject Code: 4480606**Date: 26/11/2021****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.

- Q.1** (a) Do as directed
- i) Define Terms: WSGI, SQLAlchemy, GIL, Thread **04**
- ii) Why Regular Expressions are inherently greedy? **03**
- (b) i) State one advantage and disadvantage of extension. **02**
- iii) List various web components. Identify web address components from <https://gtu.ac.in/exam-form?id=1> **02**
- iii) List various connect() Function Attributes. **01**
- iv) Say TRUE or FALSE: There is no primary alternatives to the threading module. **01**
- v) What will happen when executes “./manage.py syncdb”? **01**
- Q.2** (a) i) Give any two differences between re.match() and re.search() methods. **04**
- ii) What are the things need to be known about dataset? **03**
- (b) Explain following Regular expression Symbols and special characters **1+2+2+2**
 (Give Example) : i) Dot (“.”) ii) ^ iii) {N} iv) iv) []
- OR**
- (b) Write a python code which will read from COVID.CSV file and write data using CSV module of Python (Data format: City, Active cases, TotalCases, NoofDeaths) **07**
- Q.3** (a) What is the importance of python extension? List steps to create extension in Python. Explain any one step in detail. **07**
- (b) Explain methods used to breaks Uniform Resource Locator (URL) strings in components and to combine the components back into a URL string. **07**
- OR**
- Q.3** (a) Discuss how urllib methods are used to fetch internet resources. **07**
- (b) How web service works? How REST is used in web service? **07**
- Q.4** (a) List and explain various ways by which you can create threads using the Thread class. **07**
- (b) Explain fetchone(), fetchall() and fetchmany() cursor object methods. **07**
- OR**
- Q.4** (a) Illustrate the key advantages of having a threading environment. **07**
- (b) Write a program to insert and read data from Database in python (Table format: City (CityCode, Name, StateName)) **07**
- Q.5** (a) i) Explain using command **04**
 a) the installation of Django and
 b) creation of a new Project e.g. “MyBlog”.
- ii) What is the role of urls.py, settings.py and manage.py files ? **03**
- (b) What is the importance of visualization techniques? Discuss any two data visualization techniques. **07**
- OR**
- Q.5** (a) Discuss basic steps to create “Hello World!” project in Django using template. **07**
- (b) Explain in brief holdout, n-fold and cross-validation methods with its importance. **07**
