Seat No.: _____   Enrolment No._____

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

Subject Code: 4480606   **Date: 06-08-2021**
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.

Q.1	**(a)**	i) Explain Terms: i) WSGI ii) Fullstack iii) tweepy	03
		ii) Write a regular expression that will match	04
		a) Password (size of 8 or more) containing alphabets (lower and upper) and digits.	
		b) Email address	
		c) Strings: hut, hit, hat.	
		d) Strings starting with vowels.	
	(b)	Explain re.match() and re.search() with similarity and dissimilarity.	07
Q.2	**(a)**	Explain following methods using suitable example: findall(), finditr(), subn(),split(), group(), groups(), groupdict()	07
	(b)	Write a python program which will read corona_vaccination.csv (AdharNo, Name, Gender, Age, Status(Yes or No)). Display into HTML format.	07

OR

	(b)	What do you mean by database adapter? Write a python program to perform basic Insert and Update operations on Student(Format: Enroll no, Subject code, Marks).	07
Q.3	**(a)**	State in your words the differences found in fetchone( ), fetchall( ) and fetchmany() methods.	07
	(b)	i) List advantages and disadvantages of extensions.	04
		ii) Compare Single and Multithreaded executing in python	03

OR

Q.3	**(a)**	How urlparse(), urlunparse() and urljoin() functions are similar and different from each other?	07
	(b)	i) Compare Thread module and Threading module.	04
		ii) What is GIL? How it works?	03
Q.4	**(a)**	Explain urlopen() and urlretrieve() functions of urllib.	07
	(b)	i) Differentiate between CGI and WSGI.	04
		iii) What are the various reasons for web crawlers?	03

OR

Q.4	**(a)**	What is CGI? How to create a CGI application in Python?	07
	(b)	i) What are BaseHTTPRequestHandler, SimpleHTTPRequestHandler, and CGIHTTPRequestHandler?	04
		ii) Explain any three web address components.	03
Q.5	**(a)**	What is web framework? Discuss steps to create Django project.	07
	(b)	i) Discuss any two visualization techniques.	04
		ii) Why it is important to know shape of data set?	03

OR

Q.5	**(a)**	List various files created for Django project with its roles.	07
	(b)	i) What are holdout and n-fold cross-validation techniques?	04
		ii) Why it is important to know Types of Attributes?	03

****