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

Subject Code: 4480606   **Date: 20/05/2024**
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		i) State any two uses and benefits of web framework..	**04**
		ii) Explain the difference of sub() and subn() using suitable example.	**04**
		iii) Why you need to extend python code?	**03**
		iv) Create Regular Expression that	**03**
		i) Recognize strings: hut, hit, hat	
		ii) Recognize date format YYYY-MM-DD	
		iii) Recognize strings : phone number of format 800-2222-1212	
Q.2	**(a)**	i) Discuss special symbols and characters used in Regular expression.	**04**
		ii) What is the importance of development server?	**03**
	(b)	Explain split() method used for CSV data processing with suitable example.	**07**
		OR	
	(b)	Explain process of creating Extension in Python.	**07**
Q.3	**(a)**	Explain connect() function used to connect database using suitable example.	**07**
	(b)	Discuss similarity and dissimilarity of Thread and threading module.	**07**
		OR	
Q.3	**(a)**	Explain execute( ), executemany( ), fetchone( ), fetchall( ) and fetchmany( ) cursor object methods.	**07**
	(b)	What is Web services? How REST is used in web services?	**07**
Q.4	**(a)**	What is web crawler? List reasons for its creation.	**07**
	(b)	Discuss urlopen() and urlretrieve() functions(Give example).	**07**
		OR	
Q.4	**(a)**	Explain various web address components with suitable example.	**07**
	(b)	Discuss urlparse(), urlunparse() and urljoin() functions.	**07**
Q.5	**(a)**	Discuss basic steps to create "Hello World!" project in Django.	**07**
	(b)	Discuss a checklist to know about data Set with its importance	**07**
		OR	
Q.5	**(a)**	What is web framework? List and explain purpose of various project files of Django	**07**
	(b)	Explain holdout, n-fold and cross-validation methods	**07**

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