GUJARAT TECHNOLOGICAL UNIVERSITY
MCA INTEGRATED - SEMESTER–VIII • EXAMINATION – SUMMER - 2017

Subject Code: 4480606   **Date:05/05/ 2017**
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)**	**(1)** Write regular pattern/expression which will match i) the dot (period) character ii) strings: bat, bit, bet, but. iii) any pair of characters iv) credit card numbers start with 34 or 37 and have 16 digits	**04**
		(2) How Python Virtual machine executes code in multiple thread?	**04**
	(b)	**(1)** Explain role of indent, sort_keys and seperators properties of json.dump( ).	**03**
		(2) Define WSGI. List reasons behind WSGI creation.	**03**
Q.2	**(a)**	Discuss a checklist to know about data Set with its importance.	**07**
	(b)	Explain processing of comma separated values in Python using split() and CSV module. What is the difference between split( ) method and CSV Module.	**07**

OR

	(b)	i) Explain re.match( ) and re.search( ) methods using suitable example.	**04**
		ii) Explain sub( ) and subn( ) methods for search-and-replace functionality with suitable example.	**03**
Q.3	**(a)**	List various module attributes of DB-API. Explain connection function to access database.	**07**
	(b)	List 3 steps for creating extension in python. Discuss the process of wrapping code in boilerplate.	**07**

OR

Q.3	**(a)**	Compare between thread and threading module.	**07**
	(b)	Explain execute( ), executemany( ), fetchone( ), fetchall( ) and fetchmany( ) cursor object methods.	**07**
Q.4	**(a)**	Explain urlopen and urlretreive methods of urllib.	**07**
	(b)	Discuss Server Integration and External Processes approaches to handle performance issue.	**07**

OR

Q.4	**(a)**	Discuss urlparse( ), urlunparse( ) and urljoin( ) methods of urlparse.	**07**
	(b)	Discuss various web address components with suitable example.	**07**
Q.5	**(a)**	Discuss basic steps to create "Hello World!" project in Django.	**07**
	(b)	Explain in brief visualization techniques used for data visualization.	**07**

OR

Q.5	**(a)**	What is web framework? List and explain purpose of various project files of Django. What is the importance of development server?	**07**
	(b)	Discuss approaches for measuring the Performance of Predictive Models.	**07**

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