Seat No.: _____   Enrolment No._____

GUJARAT TECHNOLOGICAL UNIVERSITY
MCA - SEMESTER– IV • EXAMINATION – WINTER - 2017

Subject Code: 3640014   **Date:06/01/2018**

Subject Name: Advanced Python

Time:02:30PM TO 05:00PM   **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 following methods with suitable example: executemany( ),subn( ), finditr( )	**03**
		ii) Give any two differences between Thread and Threading	**02**
		iii) What is GIL?	**02**
	(b)	Discuss special symbols and characters used in Regular expression.	**07**
Q.2	**(a)**	Explain Searching and matching with suitable examples	**07**
	(b)	Explain how to process comma separated values in Python using suitable example.	**07**
		OR	
	(b)	Explain how to process data using JSON in Python using suitable example.	**07**
Q.3	**(a)**	What are extensions? What is the importance of extensions? List advantages and disadvantages of it.	**07**
	(b)	For Employee (fields:Empno,Ename) database table, and Create a database handler that outputs the contents of that table as HTML for browsers.	**07**
		OR	
Q.3	**(a)**	Define Terms: REST, WSGI, Full Stack, syncdb,Apilevel, CGI, Django Shell	**07**
	(b)	Explain the cursor fetchone(),fetchall() and fetchmany() methods using suitable example.	**07**
Q.4	**(a)**	Explain Basic, Simple and CGI web servers of Python.	**07**
	(b)	Explain in brief web crawler and web services.	**07**
		OR	
Q.4	**(a)**	Explain 3 functions(methods) of urlparse module.	**07**
	(b)	List and explain various web address (URL) components.	**07**
Q.5	**(a)**	What is the web framework? Compare Django project and Django App.	**07**
	(b)	Discuss holdout, n-fold and cross-validation methods.	**07**
		OR	
Q.5	**(a)**	Discuss visualization techniques: Q –Q, Parallel coordinates plot.	**07**
	(b)	Discuss steps to create Hello world project in Django.	**07**

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