Seat No.: _____

Enrolment No._____

GUJARAT TECHNOLOGICAL UNIVERSITY MCA - SEMESTER- IV EXAMINATION - WINTER - 2018

	Subject Code: 3640014 Date: 29/11/20		
Tir	•	t Name: Advance Python 0:30 am to 01:30 pm Total Marks: 70	
1115		Attempt all questions. Make suitable assumptions wherever necessary.	
Q.1	(a)	Short Question. Explain in one or two sentence.	07
		 In Regular Expression of python, which sign indicates the match of an expression in the start of a string? As per regular expression which expression indicates matching of Y, y, N or 	
		n?3) If we write print(re.sub("Technosavy", "Technological", "Gujarat Technosavy University")), what will be the output.	
		4) Which of the modules of python allows us to create and manage threads in Python?5) What is DR. API in Python?	
		 5) What is DB-API in Python? 6) What is "urlparse" module in Python? 7) Which is the django project file where we store all the models of django MVC? 	
	(b)	State True or False. Give Justification for FALSE statement.	07
		 In Django "views.py", which is used for admin interface. The default split() character is space. "numpy" module of python can be used for generating random numbers in different ways using choice(), random(), etc. functions. After writing "from math import sqrt", we can say math.sqrt(16). re.compile() slows down the process of compiling regular expressions. The command to create the project in django can be written as "django-admin startproject gtuproject" GIL stands for Global Interrupt Lock which is used for Thread handling in Python. 	
Q.2	(a) (b)	Briefly explain Java Script Object Notation with any small example. Explain "Thread" object methods.	07 07
	(b)	OR Explain Lock, RLock and Condition module objects with small example.	07
Q.3	(a) (b)	Explain special characters which are used in Python Regular Expression. You are supposed to use "view" from MVC in Django. Explain with example OR	07 07
Q.3	(a) (b)	Explain how the data is processed in JSON? Explain with diagram. You are supposed to do administration of a web site. Which MVC patter can be used in Django. Explain with example.	07 07
Q.4	(a) (b)	Explain different cursor objects attributes for database handling in Python. You are exploring "urlparse" module. Explain any 3 functions of this module.	07 07

OR

Q.4	(a)	What are Type Objects for database handling? Explain any 5 type objects with some example.	07
	(b)	Explain steps to create a project in Django named "HelloPython". Write any other assumptions if required.	07
Q.5	(a)	What is machine learning? How to load and summarize the dataset?	07
	(b)	Consider a table called "student" with "rollno", "name", "age", "gender" and "city" columns. Write a python code to accept "search city" and "target city". Replace the city of "search city" with "target city"	07
		OR	
Q.5	(a)	Explain how to set, retrieve and remove the cookie in CGI ? Give example.	07
	(b)	Consider a table called "student". Write a python code to accept "rollno" of a student and delete specific student with given rollno. Give appropriate message whether record is deleted or not.	07
