

GUJARAT TECHNOLOGICAL UNIVERSITY
MCA Integrated - SEMESTER-VIII- EXAMINATION – WINTER 2018

Subject Code: 4480606**Date: 27-11-2018****Subject Name: Advanced Python****Time: 02.30 pm to 5.00 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)** Do as Directed.
- i) Write regular pattern/expression which will match Adhar Number (format 9999-9999-9999). **01**
- ii) Write regular pattern/expression which will match Student Name, which will be in upper case alphabets. **01**
- iii) Find out the output of: `print(re.subn("[yY]es","no", "yes I said yes I will."))`. **01**
- iv) List web address components. **01**
- v) Define Terms: Global Interpreter Lock(GIL), Django Shell, WSGI **03**
- (b)** Say TRUE or FALSE with justification. **07**
- i) All REST interactions are stateless.
- ii) Feed contain a greater proportion of machine-readable information.
- iii) Mashups combine data and services provided by other sites.
- iv) The quality of SVG graphics are not lose when they are zoomed or resized.
- v) XML is a programming language.
- vi) Following Javascript function can be called as `add(1)` and `add(1,2)`:
- ```
function add(a,b){
 return a +b
}
```
- vii) `send()` and `send(string)` methods sends request for GET and POST methods.
- Q.2 (a)** Discuss searching and matching using suitable example. **07**
- (b)** Design a Database handler that outputs the contents of Employee(Empno, Name, Gender, Salary) table as HTML Page for browsers. **07**
- OR**
- (b)** Discuss processing of CSV file in python using Employee.csv(Empno, Name, Gender, Salary) CSV file. **07**
- Q.3 (a)** List advantages and disadvantages of Python extension. List 3 Steps for creating extensions for Python. Discuss any one in detail. **07**
- (b)** Explain the similarity and dis-similarity between the cursor `fetchone()`, `fetchall()` and `fetchmany()` methods. **07**
- OR**
- Q.3 (a)** Explain `apilevel`, `threadsafety`, `paramstyle` and `connect()` DB-API module attributes. **07**
- (b)** Differentiate between
- i) Single and Multithreaded executing in python
- ii) thread and threading module **07**
- Q.4 (a)** Define tweets. List some of the limitations of it. Explain the Twitter service in your own words. **07**
- (b)** State in your words how `urlparse()`, `urlunparse()` and `urljoin()` functions are similar and different from each other. **07**
- OR**
- Q.4 (a)** What is the use of web crawler? Why we need them? How to parse web content? **07**
- (b)** i) Compare Basic, Simple and CGI web servers of Python **03**
- ii) Discuss differences between Twython and Tweepy Python libraries. **04**

- Q.5** (a) Discuss basic steps to create “Hello World!” project in Django. **07**  
(b) Discuss visualization techniques: Q –Q, Parallel coordinates plot. **07**
- OR**
- Q.5** (a) Explain various ways to install Django framework. Write commands: to verify Django installation, change port and change IP of server. **07**  
(b) Compare holdout, n-fold and cross-validation methods. **07**

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