

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY

M. E. - SEMESTER – II • EXAMINATION – SUMMER • 2014

Subject code: 2725101

Date: 16-06-2014

Subject Name: Application Security

Time: 02:30 pm - 05:00 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) What is MySQL? What is DDL, DML and DCL? How do you get the number of rows affected by query? **07**

(b) Discuss two looping options in Python. Name and briefly describe any two list methods with their usage syntax. **07**

Q.2 (a) What are the most important steps you would recommend for securing a new web server? Web application? **07**

(b) What do you see as challenges to successfully deploying/monitoring web intrusion detection? **07**

OR

(b) On executing the DELETE statement in MySQL you keep getting the error about foreign key constraint failing. What do you do? When would you use ORDER BY in DELETE statement? **07**

Q.3 (a) What sort of logs will a typical Web application generate? How will this application handle authentication? **07**

(b) Describe briefly Python list. What is an IDE and what are the advantages of using an IDE. **07**

OR

Q.3 (a) Name few IDE's that can be used for Python programming. Explain a doc string. **07**

(b) What is -tt in python? Discuss placeholder in python with an example. **07**

Q.4 (a) What is string slicing in python? Discuss negative number for indexing (also used for slicing). **07**

(b) Describe briefly Python string type. Name and briefly describe any two string methods with their usage syntax. **07**

OR

Q.4 (a) Explain the concept of immutability in python data types. What is unit testing? **07**

(b) Discuss the logical connectives in Python. Name few comparison operators in Python. **07**

Q.5 (a) Discuss the importance of indentation in python. What is __name__ attribute? **07**

- (b) What is a module in python? Discuss some methods to get help on a module? **07**
Discuss the different ways to import a module.

OR

- Q.5** (a) Discuss functions in python. What is shebang? Why we need it? **07**

- (b) What is a command line argument with an example? Explain sys.argv **07**
