| Seat No.: | Enrolment No. |
|-----------|---------------|
|-----------|---------------|

## **GUJARAT TECHNOLOGICAL UNIVERSITY**

ME – SEMESTER II (NEW) – • EXAMINATION – SUMMER 2016

| Subject Code: 3725101                                                                                                   |            |                                                                                                                                  | Date: 24/05/2016 |  |
|-------------------------------------------------------------------------------------------------------------------------|------------|----------------------------------------------------------------------------------------------------------------------------------|------------------|--|
| Subject Name: Application Security Time: 10:30 am to 01:00 pm Instructions:  1. Attempt all questions.  Total Marketing |            | Total Marks: 70                                                                                                                  |                  |  |
|                                                                                                                         | 2.<br>3.   | Make suitable assumptions wherever necessary.<br>Figures to the right indicate full marks.                                       |                  |  |
| Q.1                                                                                                                     | (a)<br>(b) | Explain pattern matching in MySQL with suitable examples Explain CASE and IF statements in MySQL with suitable examples          | mple 07          |  |
| Q.2                                                                                                                     | (a)<br>(b) | Write short note on Data manipulation statements in MySQL Discuss about the query execution plan in MySQL OR                     | 07<br>07         |  |
|                                                                                                                         | <b>(b)</b> | Discuss about transaction management in MySQL                                                                                    | 07               |  |
| Q.3                                                                                                                     | (a)<br>(b) | Write a short note on indexing in MySQL Discuss the threat modeling Process in detail using suitable dia OR                      | oran             |  |
| Q.3                                                                                                                     | (a)<br>(b) | What are the security objectives for software development pro-<br>Write a short note on Denial of service attack and Code inject |                  |  |
| Q.4                                                                                                                     | (a)<br>(b) | Discuss on SQL injection attacks with suitable examples Write a short note on penetration testing OR                             | 07<br>07         |  |
| Q.4                                                                                                                     | (a)<br>(b) | Explain in detail working with regular expression in Python Discuss working with Python List with a suitable examples            | 07<br>07         |  |
| Q.5                                                                                                                     | (a)<br>(b) | Write a python script to check if the given sentence is a palind Write a short note on String manipulation in Python  OR         | rome <b>07</b>   |  |
| Q.5                                                                                                                     | (a)<br>(b) | Explain in detail how Hash table is used in Python? Write a note on working with files in Python                                 | 07<br>07         |  |
|                                                                                                                         |            |                                                                                                                                  |                  |  |

\*\*\*\*\*