Seat No.:	Enrolment No.

## **GUJARAT TECHNOLOGICAL UNIVERSITY**

## ME – SEMESTER II - EXAMINATION – SUMMER 2017

Subject Code: 3725101 Subject Name: Application Security Time:02:30 PM to 05:00 PM Instructions:			Date: 25/05/2017 Total Marks: 70	
		2:30 PM to 05:00 PM Total		
	1. 2.	<ul><li>Attempt all questions.</li><li>Make suitable assumptions wherever necessary.</li><li>Figures to the right indicate full marks.</li></ul>		
Q.1	(a) (b)	Explain sql injection attack with proper example. What is OWASP? Discuss Top 10 Web Application Security Risks.		07 07
Q.2	(a) (b)	Discuss concept of scripting language. Explain python scripting with examples are given. Answer the following queries in MySQL.  EMP(empno, ename, jobtitle, managerno, hiredate, sal, comm, DEPT(deptno, dname, loc)  Answer the following queries in SQL.  i) Find the Employees working in the department 10, 20, 30 only.  ii) Find Employees whose names start with letter A or letter a.  iii) Find Employees along with their department name.  iv) Find Employees whose manager is KING.  v) Find the Employees who are working in Smith's department  vi) Find the Employees who get salary more than Allen's salary.  vii) Display employees who are getting maximum salary in each department.  OR	deptno)	07 0 <b>7</b>
	(b)	Following tables are given. Answer the following queries in MySQL.  Supplier(S#,sname,status,city)  Parts(P#,pname,color,weight,city)  SP(S#,P#,quantity)  (i) Find name of supplier for city = 'Delhi'.  (ii) Find suppliers whose name start with 'CD'  (iii) Find all suppliers whose status is 10, 20 or 30.  (iv) Find total number of city of all suppliers.  (v) Find s# of supplier who supplies 'red' part.  (vi) Count number of supplier who supplies 'red' part.  (vii) Sort the supplier table by sname.		<b>07</b>
Q.3	(a) (b)	Discuss Application security risks. What is regular expression? Explain MySql REGEXP Syntax with cexamples.		07 07
Q.3	(a) (b)	OR Write a short note on threat risk modeling process. Discuss Types of intruders and explain how web application can be process.		07 07
Q.4	<ul><li>(a)</li><li>(b)</li></ul>	Explain object – orientation and how to create objects in python by example.  Explain various string functions in python.  OR		07 07
Q.4	(a) (b)	Explain how python can be used for application security testing. Explain Exception handling mechanism in python.		07 07
Q.5	(a)	Explain Lists in python with its basic operations like add, update, delete by giving suitable example.	, search	07

- (b) Explain Dictionaries in python with its operations by giving suitable example. **07 OR**
- Q.5 (a) Write a python program using lists to implement a function overlapping() which takes two lists and returns True if they have at least one member in common, False otherwise.
  - (b) Write a python program using dictionary to implement a function translate() 07 that takes a list of English words and returns its meanings.

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