JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

TEST -1 EXAMINATION- Feb 2019

B.Tech. (CS and IT) VIII Semester

COURSE CODE: 18B1WCI838   MAX. MARKS: 15

COURSE NAME: Secure Web Application Development

COURSE CREDITS: 3   MAX. TIME: 1 Hr.

Note: *All questions are compulsory. Carrying of mobile phone during examinations will be treated as case of unfair means.*

Q1.   CO-1   Distinguish between the following pairs of terms   [3]
(a) Websites and Web Applications
(b) GET and POST methods in HTTP
(c) Technical Vulnerabilities and Logical Vulnerabilities

Q2.   CO-2   (a) Suppose web application uses query string in URL to retrieve the database record as given below   [2]
http://example.com/somepage?invoice=12345

Identify the name of vulnerability associated with web application and explain how you will protect against this vulnerability.

(b) Suppose you know that a particular web site uses a backend database to implement authentication. Given a login page with username and password fields, what would you type into these fields to try to perform SQL Injection to bypass proper authentication? Explain why your approach would work.   [2]

Q3.   CO-2   What is Information Leakage in web applications? List two examples of Information Leakage and describe in detail security mechanism.   [4]

Q4.   CO-3   Demonstrate with proper example how you will implement form based authentication and authorization in web application.   [4]