JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

TEST-2 EXAMINATION- October, 2019

B. Tech VII Semester

COURSE CODE: 10M11CI113   MAX. MARKS: 25

COURSE NAME: ADBMS (Elective)

COURSE CREDITS: 3   MAX. TIME: 90 Minutes

Note: Attempt any five. Each question carries 5 marks. Carrying of mobile phone during examinations will be treated as case of unfair means.

Q1   Describe timestamp-based protocol and validation-based protocol for concurrency control.

Q2   Describe the data access and associated operations of transactions among physical blocks, buffer blocks, and private work areas of transactions.

Q3   Describe deferred database modification and immidiate database modification techniques of log-based recovery.

Q4   What is a Sparse-indexed file? Explain with a suitable example.

Q5   Describe Star schema, Snowflake schema, and Fact constellation models of a data warehouse.

Q6   Describe the following in context of OLAP with suitable example:

(a) Cross-tabulation

(b) Data cube

(c) Data cube operations