CS315: Quiz 3

Marks = 20; Time = 15 minutes

13th April, 2023

Roll: **Name:** **Seat:**

There are 4 questions in 2 pages. Answer in the question paper itself and return.

Q1: [5 marks] Consider the following schedule:

$$r_2(z); r_2(y); w_2(y); r_3(y); r_3(z); r_1(x); w_1(x); w_3(y); w_3(z); c_3; r_2(x); r_1(y); w_1(y); w_2(x); c_1; c_2;$$

Find the class of the schedule in (1) serializability, and (2) recoverability

Q2: [5 marks] Consider the following schedule:

$$r_1(x); r_2(y); w_2(y); r_1(z); w_1(z); c_1; r_3(x); w_3(z); c_3; w_2(z); w_2(x); c_2;$$

Find the class of the schedule in (1) serializability, and (2) recoverability.

Q3: [5 marks] Give example of a schedule that is simultaneously (1) non-conflict-serializable and (2) recoverable, and **explain** very briefly why.

Q4: [5 marks] Give example of a schedule that is simultaneously (1) view-serializable but non-conflict-serializable and (2) cascadeless but non-strict, and **explain** very briefly why.