

CS315 Quiz 4

Marks = 20

8th April, 2019

Roll:

Name:

The following table uses these abbreviations:

R – recoverable, C – cascadeless, S – strict, CS – conflict-serializable, VS – view-serializable, SER – serial.

	¬R	R, ¬C	C, ¬S	S, ¬SER
¬VS	j	i		h
VS, ¬CS	g	f	e	d
CS, ¬SER	c		b	a

Q1: Give examples of the schedules marked (a) to (j) in the above table. (Write the answers in the front, and you can use the back for rough work.)

- (a) [2 marks] $r_1(X); r_2(Y); c_1; r_2(X); w_2(X);$
- (b) [2 marks] $r_1; w_2(X); w_1(X); c_1; c_2;$
- (c) [2 marks] $r_1(X); r_2(Y); w_1(X); r_2(X); c_2; r_1(Y); c_1;$
- (d) [2 marks] $r_1(X); w_3(X); c_3; w_2(X); c_2; w_1(X); c_1;$
- (e) [2 marks] $r_1(X); w_3(X); w_2; w_1(X); c_3; c_2; c_1;$
- (f) [2 marks] $r_1(X); w_3(X); r_2(X); w_1(X); w_2(X); c_3; c_1; c_2;$
- (g) [2 marks] $r_1(X); w_3(X); r_2(X); w_2(X); w_1(X); c_2; c_3; c_1;$
- (h) [2 marks] $r_1(X); r_2(Y); w_1(Y); c_1; r_2(X); w_2(X); c_2;$
- (i) [2 marks] $r_1(X); w_1(X); r_2(Y); r_2(X); w_1(Y); w_2(Y); w_2(X); c_1; c_2;$
- (j) [2 marks] $r_1(X); w_1(X); r_2(Y); r_2(X); w_1(Y); w_2(Y); w_2(X); c_2; c_1;$