SQA Assignment 2 Solution - Spring 2016

Problem 1

V (G) = 6

Path #	Path	C1	C2	C3	C4	C5
1	1-2-3-15-16-26	F	X	X	T	X
2	1-2-3-15-19-20-26	F	X	X	F	T
3	1-2-3-15-19-23-26	F	X	X	F	F
4	1-2-3-4-5-6-3-15-16-26	T/F	T	X	T	X
5	1-2-3-4-5-9-10-3-15-16-26	T/F	F	F	T	X
6	1-2-3-4-5-9-10-11-3-15-16-26	T/F	F	T	T	X

Problem 2

V (G) = 6

Path #	Path	C1	C2	C3	C4	C5
1	1-2-3-12-13-21	F	X	X	T	X
2	1-2-3-12-16-21	F	X	X	F	F
3	1-2-3-12-16-17-21	F	X	X	F	T
4	1-2-3-5-8-9-21	T	F	F	X	X
5	1-2-3-5-6-8-9-21	T	T	F	X	X
6	1-2-3-5-8-9-5-8-9-21	T	F/F	T/F	X	X

Problem 3

V (G) = 5

Path #	Path	C1	C2	C3	C4
1	1-2-13-17	F	X	X	F
2	1-2-13-14-13-17	F	X	X	T/F
3	1-2-3-4-10-17	T	F	X	X
4	1-2-3-4-5-8-4-10-17	T	T/F	F	X
5	1-2-3-4-5-6-8-4-10-17	T	T/F	T	X

Problem 4

V (G) = 8

Path #	Path	C1	C2	C3	C4	C5	C6	C7
1	$1-2-3_1-17_1-18-23-25$	F	X	X	X	X	T	X
2	$1-2-3_1-17_1-17_2-18-23-25$	F	X	X	X	X	F	T
3	$1-2-3_1-17_1-17_2-21-23-25$	F	X	X	X	X	F	F
4	$1-2-3_1-3_2-3_3-17_1-18-23-25$	T	F	F	X	X	T	X
5	$1-2-3_1-3_2-4-5-14-25$	T	T	X	F	X	X	X
6	$1-2-3_1-3_2-3_3-4-5-14-25$	T	F	T	F	X	X	X
7	$1-2-3_1-3_2-4-5-6-7-12-5-14-25$	T	T	X	T/F	T	X	X
8	$1-2-3_1-3_2-4-5-6-10-12-5-14-25$	T	T	X	T/F	F	X	X