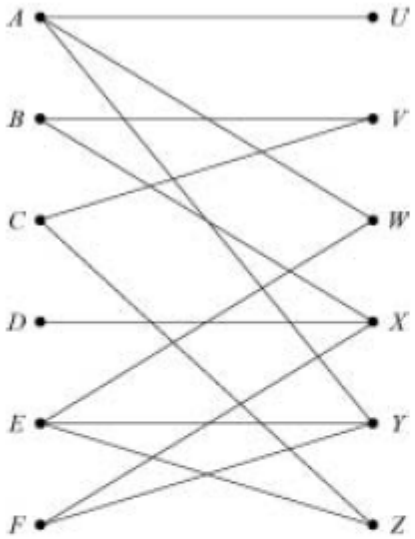
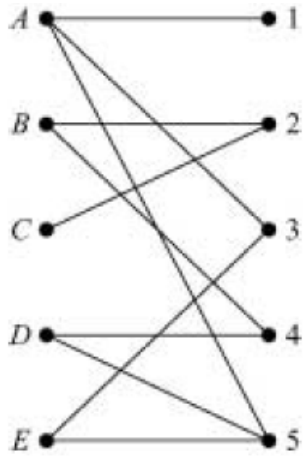
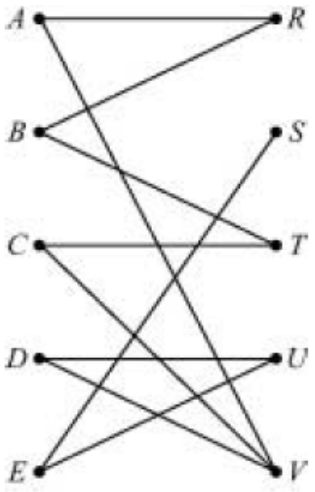
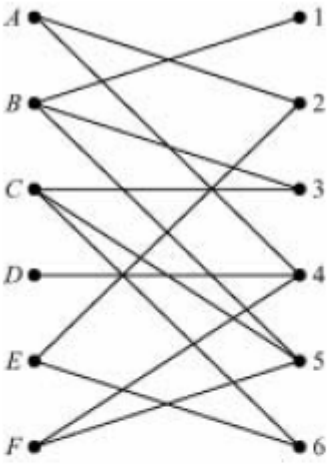
Decision 1 Matching Problems Answers

1(a)		M1 A1	 2	Must be in part (a)
(b)	$D-X+B-V+C$ $-Z$	M1 A1		Starting from D, F, Z, U
	$F-Y+E-W+A-U$	M1A1		Same
	Match: AU, BV, CZ, DX, EW, FY	B1	5	
	Total		7	

1(a)		M1 A1	 2	
(b)	Initial A3, B4, C2, E5 D – 4 + B – 2 + C No D – 5 + E – 3 + A – 1 Yes Complete A1, B4, C2, D5, E3	B1 M1 A1 B1	 4	Starting from D,1 Either Only solution
	Total		**6**	

2(a)		M1		Bipartite graph
		A1	2	All correct
(b)	Start with D (or S)	B1		
	$D-U+E-S$ **or** $D-V+A-R+B-T+C$ $-V+D-U+E-S$	M1 A1		For attempt at any path
	Match: AV, BR, CT, DU, ES **or** AR, BT, CV, DU, ES	B1	4	Must be 5 pairs
	Total		**6**	

1(a)		M1 A1	2	
(b)	D can only do 4	E1	1	Cannot be matched to task
(c)	$A-2+E-6+C-5$	M1A1		Starting with A, D, 5, 1 First pass
	$D-4+F-5+C-3+B-1$	M1A1 A1		Second pass All Correct **Alt:1** $A-4+F-5$ $D-4+A-2+E-6+C-3+B-1$
	Match $A2, B1, C3, D4, E6, F5$	B1	6	**Alt: 2** $D-4+F-5$ $A-2+E-6+C-3+B-1$
	Total		**9**	