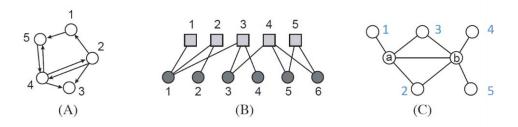
Assignment Report

Problem 1:

(a)	acyclic directed network: food webs										
	Data can be collected from vary biology books.										
	Phenomenon: Which animal impacts mostly if it were extinct.										
(b)	cyclic directed network: friendship										
	Data can be collected by questionnaire survey.										
	Phenomenon: Who might be the most potential leader to approach the proposal.										
(c)	the tree: family tree										
	Data can be gathered from the Household Registration Office.										
	Phenomenon: Who might suffer from the genetic disease.										
(d)	planar network: electric circuit										
	The circuit can be recorded by hands randomly.										
	Phenomenon: Which edge if taken might not affect the whole electric circuit.										
(e)	bipartite network: clubs students attending										
	Data can be collected from the questionnaire survey.										
	Phenomenon: Whether the higher possibility of students attending the similar										
(f)	temporal network: contact of a person										
	The information can be gathered from the data of social network or cellphone.										
	Phenomenon: Who has the most frequent contacting with the recipient.										

Problem 2:



(a)	Α	1	2	<u>)</u>	3	4	5		41.			Α										
	1	0	C)	0	0	1	-	(b)			1	{ (5,1) }									
	2	1	C)	1	1	0					2	{ (1,1) , (3,1) , (4,1) }									
	3	0	C)	0	0	0					3	{ }	}				<u> </u>				
	4	0	1	L	1	0	1					4										
	5	0	C)	0	1	0					5										
(c)	А		1	2	3	4	5			Α	1	2	3	4	5	6						
	1		1	1	1	0	0			1	1	0	0	0	0	0	•					
	2	ļ	0	1	0	0	0			2	1	1	0	0	0	0						
	3	ļ	0	0	1	1	0			3	0	0	1	1	0	0						
	4	ļ	0	0	1	0	0			4	0	0	1	0	0	1						
	5	ļ	0	0	0	1	1			5	 0	0	0	0	1	1						
	6		0	0	0	1	1			3	١	0	<u> </u>	J		_	-					

Collaboration: TA 丁羅邦芸.