

 POLITEKNIK MALAYSIA KUCHING SARAWAK JABATAN MATEMATIK, SAINS & KOMPUTER		COURSE CODE / COURSE NAME		DBM2033 DISCRETE MATHEMATICS	
		COURSEWORK ASSESSMENT		QUIZ 2	
		SESSION		JUNE 2018	
NAME	Ian Kong Shi Ping	DURATION	20 minutes	CLO 2	
REGISTRATION NO.	0500117F2626				
PROGRAMME/SECTION	DDT2B	TOTAL MARKS			

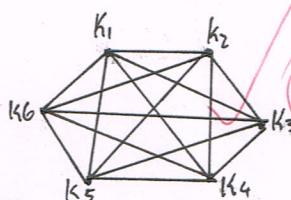
INSTRUCTION:

Answer all the questions.

Question 1 (CLO2, C3)

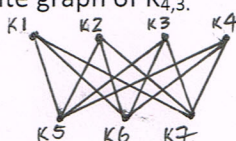
a) Sketch the following graph.

- i. A Complete graph of K_6 .
 $K_1, K_2, K_3, K_4, K_5, K_6$



(2 marks)

- ii. A complete bipartite graph of $K_{4,3}$.

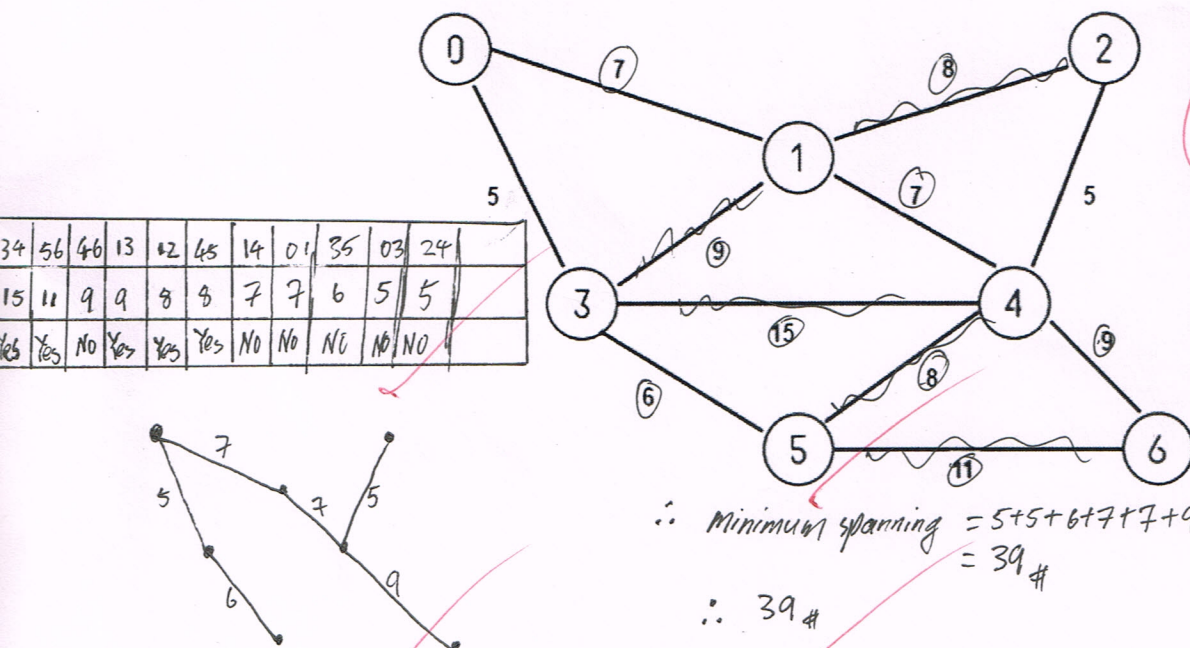


(3 marks)

Question 2 (CLO2, C3)

a) Find and draw the minimum spanning tree by using Prim's Algorithm.

(5 marks)



 JABATAN MATEMATIK, SAINS & KOMPUTER		COURSE CODE / COURSE NAME		DBM2033 DISCRETE MATHEMATICS	
		COURSEWORK ASSESSMENT		QUIZ 2	
		SESSION		JUNE 2018	
NAME	Ameida Jocelyn	DURATION	20 minutes	CLO 2	
REGISTRATION NO.	09DD117F3040				
PROGRAMME/SECTION	DD13B/152	TOTAL MARKS			

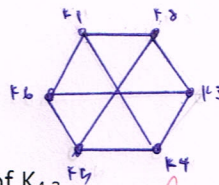
INSTRUCTION:

Answer all the questions.

Question 1 (CLO2, C3)

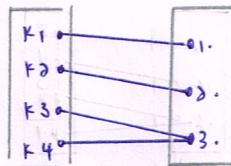
a) Sketch the following graph.

i. A Complete graph of K_6 .



(2 marks)

ii. A complete bipartite graph of $K_{4,3}$.

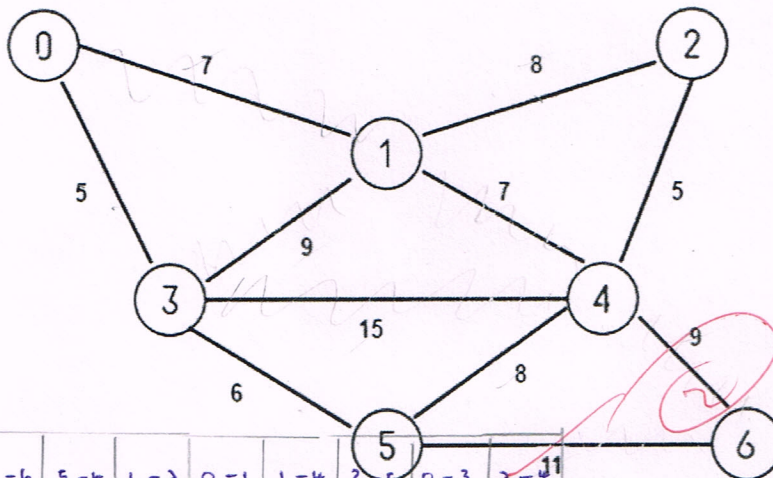


(3 marks)

Question 2 (CLO2, C3)

a) Find and draw the minimum spanning tree by using Prim's Algorithm.

(5 marks)



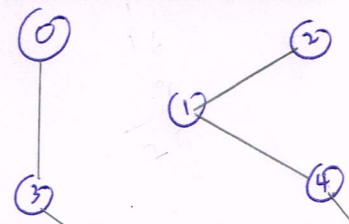
$$n - 1 = 11 - 1 = 10$$

Edges	3-4	5-6	3-1	4-6	5-4	1-2	0-1	1-4	3-5	0-3	2-4
Weight	15	11	9	9	8	8	7	7	6	5	5
Delete	Yes	Yes	Yes	No	No	No	Yes	Yes	No	No	No

$$\text{Total weight} = 9 + 8 + 8 + 6 + 5 + 5$$

~ END OF QUESTIONS ~

new min. spanning tree:



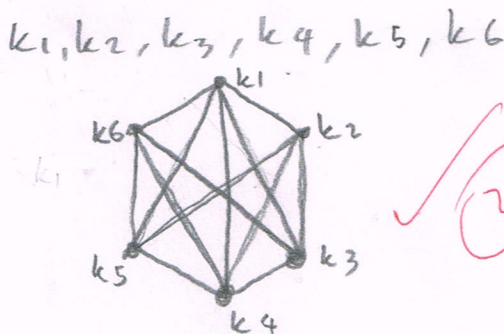
 KEMENTERIAN PENDIDIKAN MALAYSIA				COURSE CODE / COURSE NAME		DBM2033 DISCRETE MATHEMATICS	
JABATAN MATEMATIK, SAINS & KOMPUTER				COURSEWORK ASSESSMENT		QUIZ 2	
				SESSION		JUNE 2018	
NAME		Maeximillian			DURATION	20 minutes	CLO 2
REGISTRATION NO.		05DDT17P2042					
PROGRAMME/SECTION		DDT2B			TOTAL MARKS		

INSTRUCTION:

Answer all the questions.

Question 1 (CLO2, C3)

- a) Sketch the following graph.
- A Complete graph of K_6 .



(2 marks)

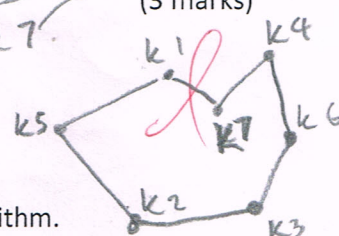
- A complete bipartite graph of $K_{4,3}$.

$V_1 = k_1, k_2, k_3, k_4$
 $V_2 = k_5, k_6, k_7$

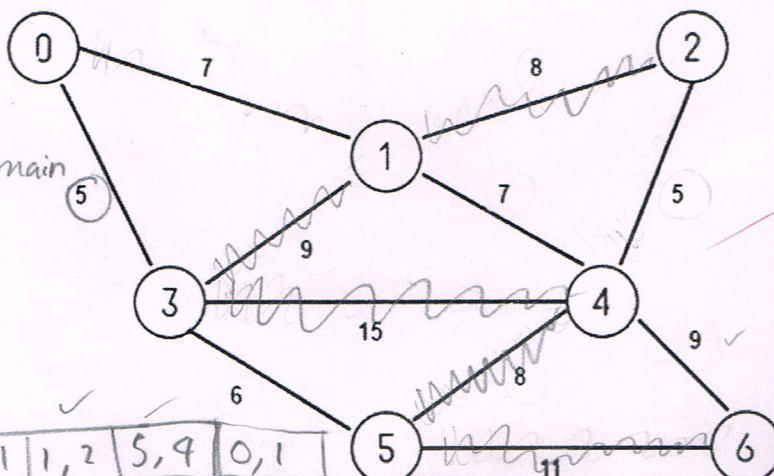
(3 marks)

Question 2 (CLO2, C3)

- a) Find and draw the minimum spanning tree by using Prim's Algorithm.



(5 marks)



$7 - 1 = 6$ remain

3,4	5,6	4,6	3,1	1,2	5,4	0,1	1,4	3,5	0,3	2,4
15	11	9	9	8	8	7	7	6	5	5
Yes	Yes	No	Yes	Yes	Yes	No	No	No	No	No

$9 + 7 + 7 + 6 + 5 + 5$ ~ END OF QUESTIONS ~

 POLITEKNIK MALAYSIA KUCHING SARAWAK JABATAN MATEMATIK, SAINS & KOMPUTER	COURSE CODE / COURSE NAME		DBM2033 DISCRETE MATHEMATICS	
	COURSEWORK ASSESSMENT		QUIZ 2	
	SESSION		JUNE 2018	
NAME	BRYNER LEE YOONGI		DURATION	20 minutes
REGISTRATION NO.	05DDT14F2013		CLO 2	
PROGRAMME/SECTION	DDT2B / S2		TOTAL MARKS	

INSTRUCTION:

Answer all the questions.

Question 1 (CLO2, C3)

a) Sketch the following graph.

i. A Complete graph of K_6 .

(2 marks)

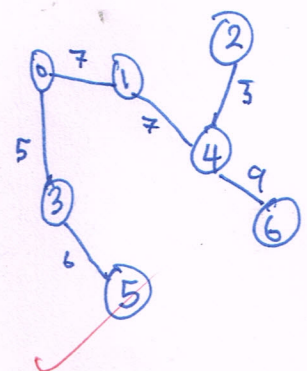
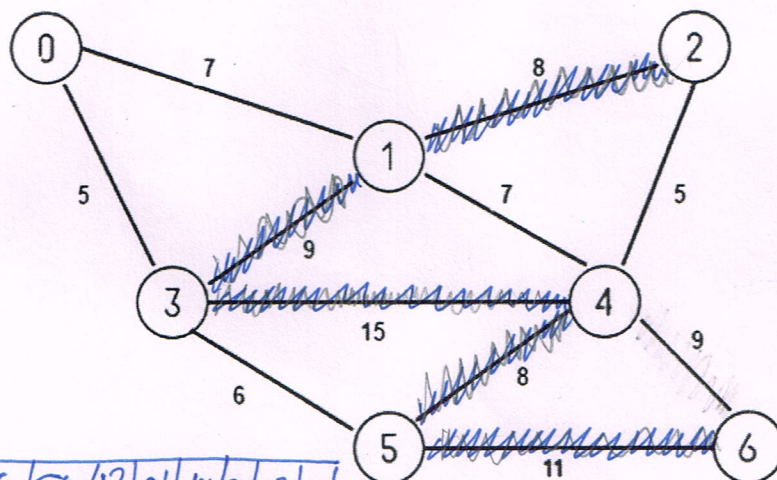
ii. A complete bipartite graph of $K_{4,3}$.

(3 marks)

Question 2 (CLO2, C3)

a) Find and draw the minimum spanning tree by using Prim's Algorithm.

(5 marks)



Edge	24	56	31	46	59	12	01	14	35	03	24
weight	15	11	9	9	8	8	7	7	6	5	5
Delete	Y	Y	Y	N	Y	Y	N	N	N	N	N

Total weight = ~~46~~ 9 + 7 + 7 + 6 + 5 + 5
= 39

~ END OF QUESTIONS ~

		COURSE CODE / COURSE NAME	DBM2033 DISCRETE MATHEMATICS		
		COURSEWORK ASSESSMENT	QUIZ 2		
JABATAN MATEMATIK, SAINS & KOMPUTER		SESSION	JUNE 2018		
NAME	Ayredale Syera	DURATION	20 minutes	CLO 2	
REGISTRATION NO.	05DDT17F2009				
PROGRAMME/SECTION	DDT2B/S2			TOTAL MARKS	

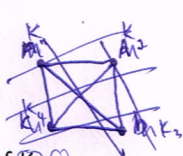
INSTRUCTION:

Answer all the questions.

Question 1 (CLO2, C3)

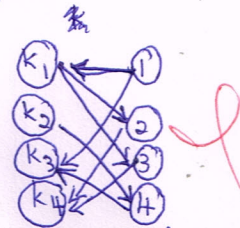
a) Sketch the following graph.

i. A Complete graph of K_6 .



(2 marks)

ii. A complete bipartite graph of $K_{4,3}$.



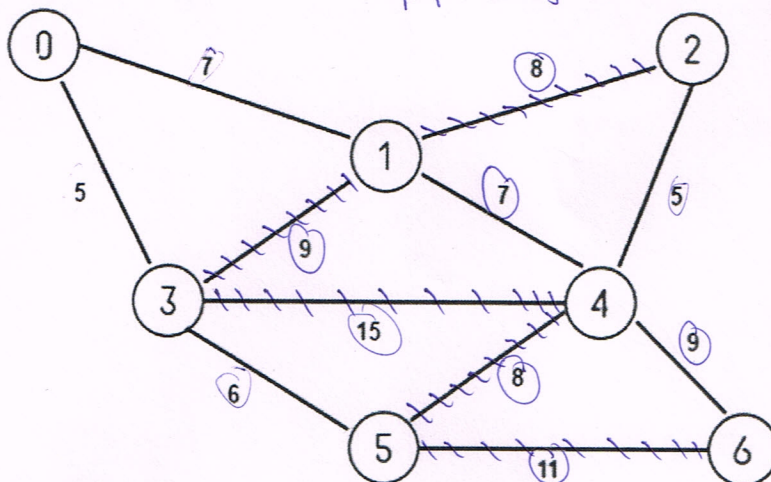
(3 marks)

Question 2 (CLO2, C3)

a) Find and draw the (minimum spanning tree) by using (Prim's Algorithm.)

(n-1) edges remain
7-1 = 6 edges remain

(5 marks)



3,4 Yes

5,6 Yes

4,6 NO

7,3 Yes

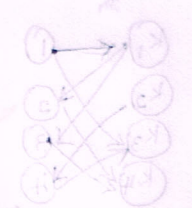
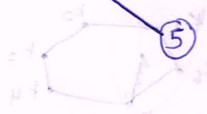
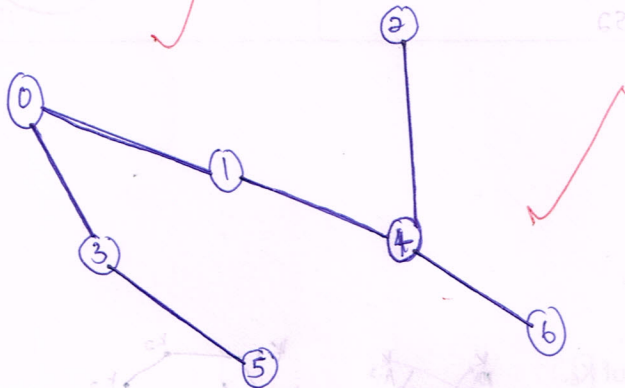
4,5 Yes

~ END OF QUESTIONS ~

$(n-1)$ edges remain $= 7-1 = 6$ edges remain

Edge	3,4	5,6	4,6	1,3	1,2	4,5 7,4	1,4 1,4	0,1	3,5	0,3	2,4
Weight	15	11	9	9	8	8	7	7	6	5	5
Delete	Yes	Yes	No	Yes	Yes	Yes	No	No	No	No	No

Total weight = $9 + 7 + 7 + 6 + 5 + 5$
 $= 39$



 JABATAN MATEMATIK, SAINS & KOMPUTER		COURSE CODE / COURSE NAME		DBM2033 DISCRETE MATHEMATICS	
		COURSEWORK ASSESSMENT		QUIZ 2	
		SESSION		JUNE 2018	
NAME	MUHAMAD NUWAIR AMIRUDDIN	DURATION	20 minutes	CLO 2	
REGISTRATION NO.	05DDT17F2046				
PROGRAMME/SECTION	DDT2 - S2			TOTAL MARKS	

INSTRUCTION:

Answer all the questions.

Question 1 (CLO2, C3)

a) Sketch the following graph.

i. A Complete graph of K_6 .

(2 marks)

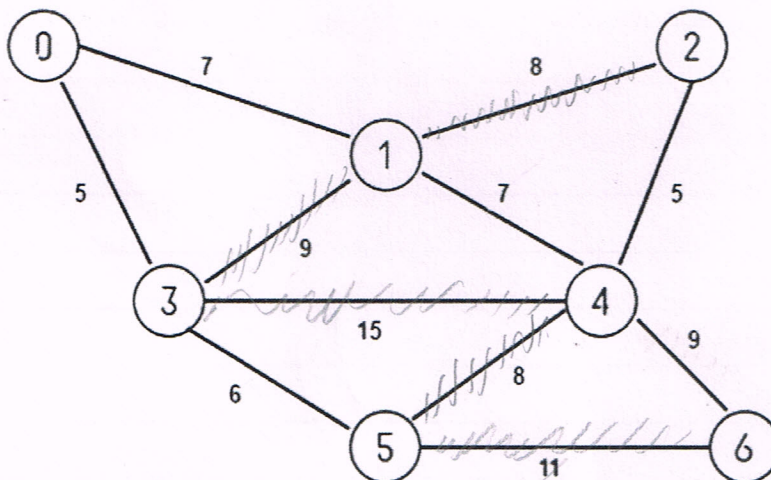
ii. A complete bipartite graph of $K_{4,3}$.

(3 marks)

Question 2 (CLO2, C3)

a) Find and draw the minimum spanning tree by using Prim's Algorithm.

(5 marks)

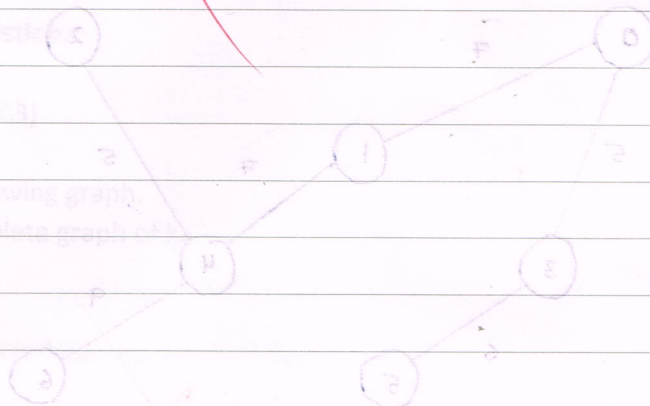
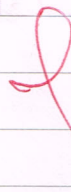
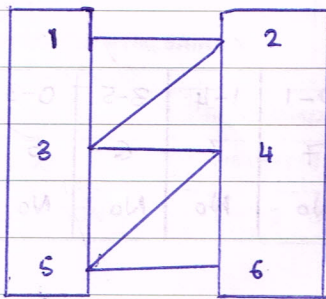


Edge
weight
Delete

No.: complete

Date:

Q1. i. graph K_6



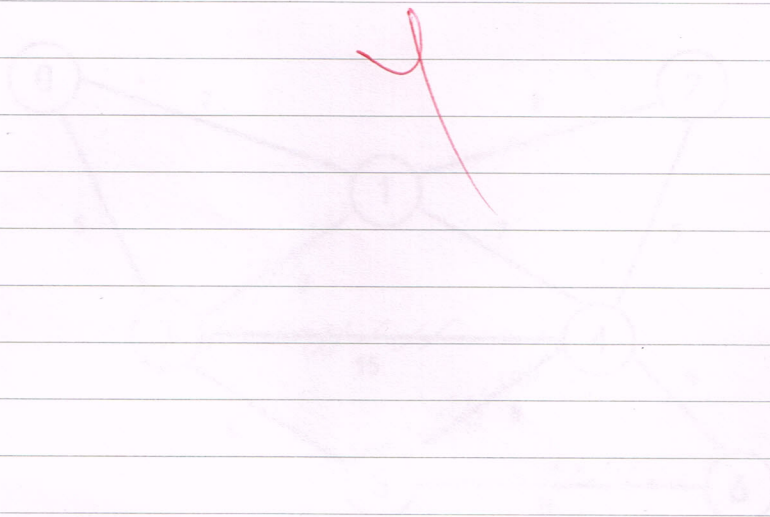
ii. Bipartite graph $K_{4,3}$

1

2

3

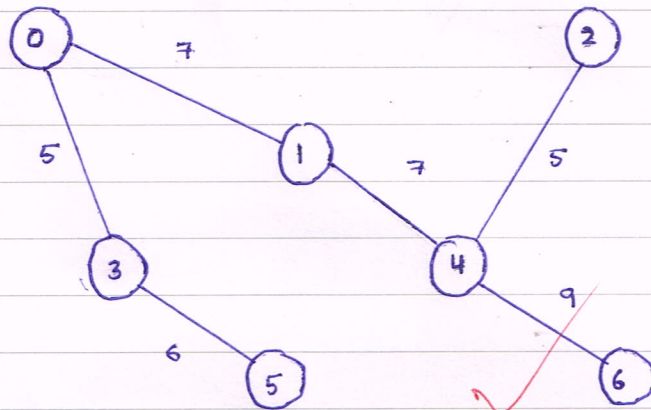
4



Q2. a) Spanning tree (Prim's Algorithm)

No of edges left = $7 - 1 = 6$ edges

Edge	3-4	5-6	4-6	1-3	1-2	4-5	0-1	1-4	3-5	0-3	2-4
Weight	15	11	9	9	8	8	7	7	6	5	5
Delete	Yes	Yes	No	Yes	Yes	Yes	No	No	No	No	No



Total?

11
14
28
14
42

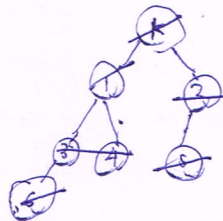
 KEMENTERIAN PENDIDIKAN TINGGI		 POLITEKNIK MALAYSIA KUCHING SARAWAK		COURSE CODE / COURSE NAME		DBM2033 DISCRETE MATHEMATICS		
JABATAN MATEMATIK, SAINS & KOMPUTER				COURSEWORK ASSESSMENT		QUIZ 2		
				SESSION		JUNE 2018		
NAME		Helary Lavrine			DURATION	20 minutes	CLO 2	
REGISTRATION NO.		05DDT17F2003						
PROGRAMME/SECTION		DDT2B					TOTAL MARKS	

INSTRUCTION:

Answer all the questions.

Question 1 (CLO2, C3)

- a) Sketch the following graph.
- A Complete graph of K_6 .
 - A complete bipartite graph of $K_{4,3}$.



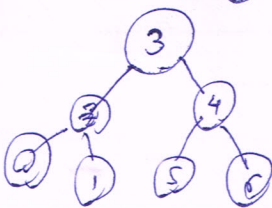
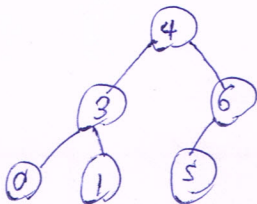
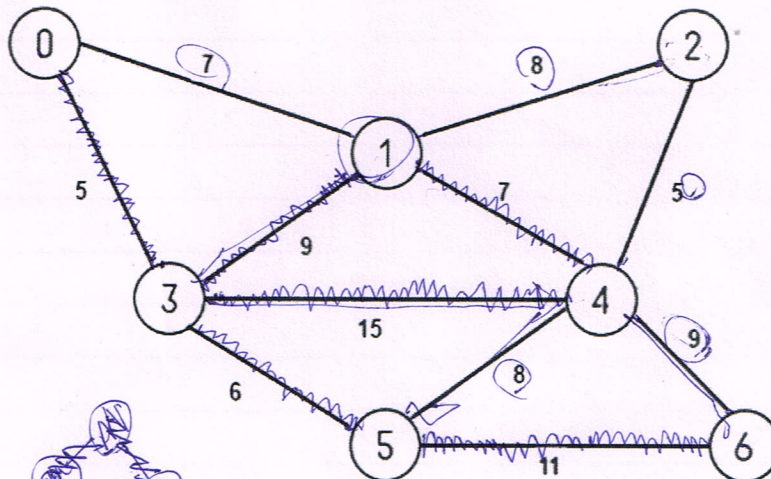
(2 marks)

(3 marks)

Question 2 (CLO2, C3)

- a) Find and draw the minimum spanning tree by using Prim's Algorithm.

(5 marks)



		COURSE CODE / COURSE NAME		DBM2033 DISCRETE MATHEMATICS	
		COURSEWORK ASSESSMENT		QUIZ 2	
		SESSION		JUNE 2018	
NAME	DANNIELLA MELLINIE	DURATION	20 minutes	CLO 2	
REGISTRATION NO.	050DT17F2005				
PROGRAMME/SECTION	DDT2B-S2	TOTAL MARKS			

INSTRUCTION:

Answer all the questions.

Question 1 (CLO2, C3)

a) Sketch the following graph.

i. A Complete graph of K_6 .

(2 marks)

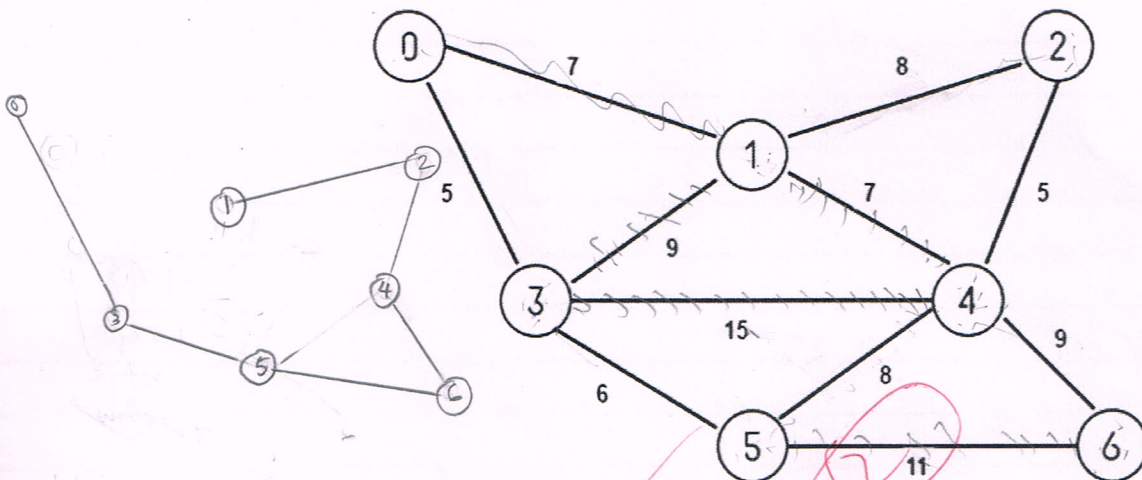
ii. A complete bipartite graph of $K_{4,3}$.

(3 marks)

Question 2 (CLO2, C3)

a) Find and draw the minimum spanning tree by using Prim's Algorithm.

(5 marks)



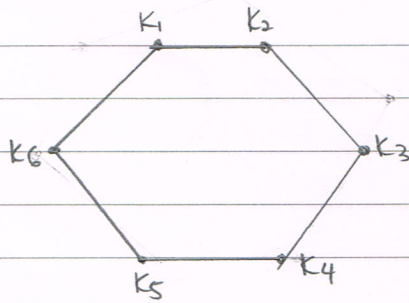
Edge	3 4	5 6	3 1	4 6	4 5	1 2	0 1	1 4	3 5	0 3	2 4
Height	15	11	9	9	8	8	7	7	6	5	5
Delete	Yes	No	Yes	No	Yes	No	Yes	Yes	No	No	No

$$= n - 1$$

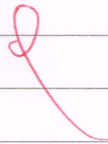
$$\text{Total} = 11 + 9 + 8 + 6 + 5 + 5$$

~ END OF QUESTIONS ~

a) Complete graph K_6



b) Bipartite $K_{4,3}$





JABATAN MATEMATIK, SAINS &
KOMPUTER

COURSE CODE / COURSE NAME

DBM2033 DISCRETE MATHEMATICS

COURSEWORK ASSESSMENT

QUIZ 2

SESSION

JUNE 2018

NAME

Ferdinand Alq

REGISTRATION NO.

05PDT17 F2017

PROGRAMME/SECTION

PDT213

DURATION

20 minutes

CLO 2

TOTAL MARKS

INSTRUCTION:

Answer all the questions.

Question 1 (CLO2, C3)

a) Sketch the following graph.

i. A Complete graph of K_6 .

(2 marks)

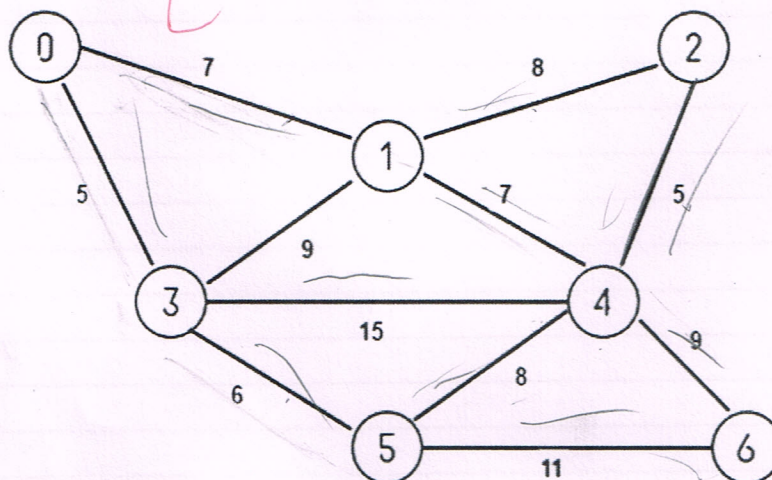
ii. A complete bipartite graph of $K_{4,3}$.

(3 marks)

Question 2 (CLO2, C3)

a) Find and draw the minimum spanning tree by using Prim's Algorithm.

(5 marks)



3,4	5,6	3,1	4,6	5,4	1,2	1,4	0,1	3,5	4,2	0,3
15	11	9	9	8	6	7	7	6	5	5
Yes	No	No	Yes	No	No	No	Yes	Yes	Yes	Yes

$$7-1=6$$

Minimum spanning tree
 $= 15 + 9 + 7 + 6 + 5 + 5$
 $= 47$

