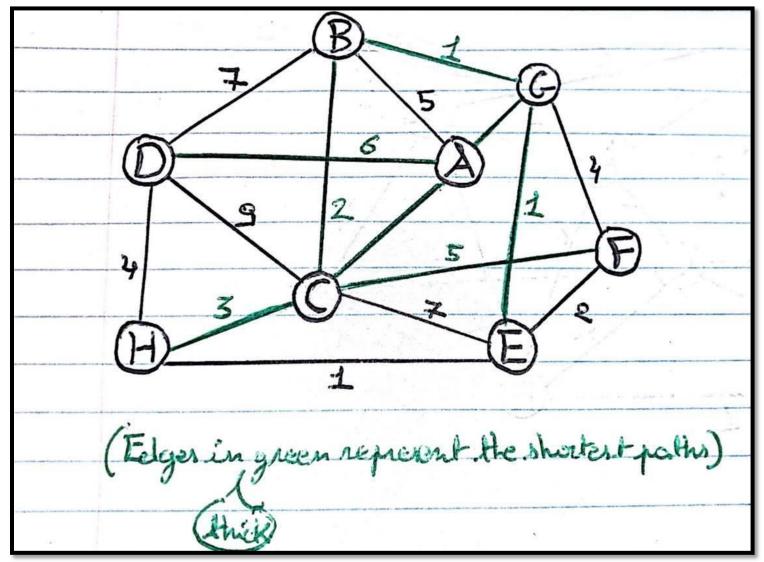
### CSI2110-D - Written Assignment #10

Alae Boufarrachene (300188539)

## Question 1:

a)



b)

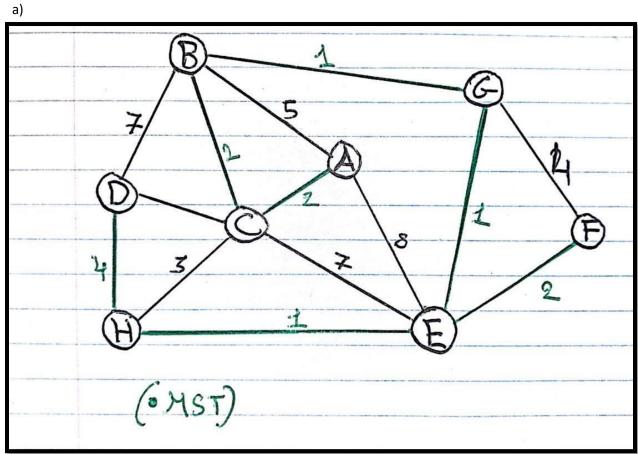
		_ ^ \	
Vertices	Edges	9	Dist from A
(in order)	(in order)		-
X	A-60	A	0
A		В	Ц
C	C-B	С	2
B	B-G	D	6
Cath		Е	6
6	6-E	F	子
	E-H	G	5
		Н	U
Н	H-D		
1 1			
D	D-F		
F			
•			

#### CSI2110-D - Written Assignment #10

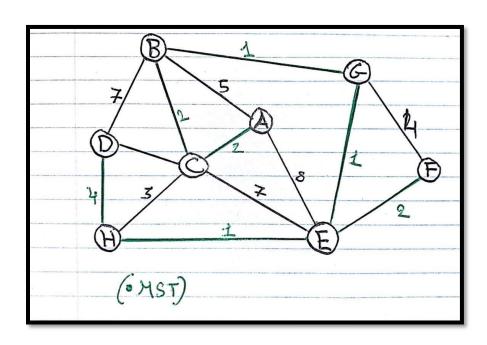
Alae Boufarrachene (300188539)

# Question 2:

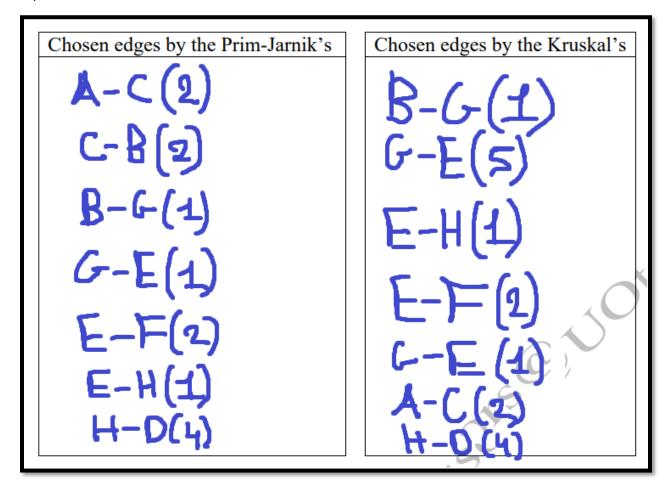








c)



#### **Question 3:**

C -> B: 4+2+4+4+1+1+2 = 18 (This is an MST) C-> E: 4+2+1+4+4+5+2 = 22 (This isn't an MST) C-> F: 4+2+2+1+5+4+4 = 22 (This isn't an MST)

The graph contains only one MST.