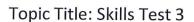
Mathematics Department

Course: 2C MAT





Student Name: Solution 5.

Date: _____

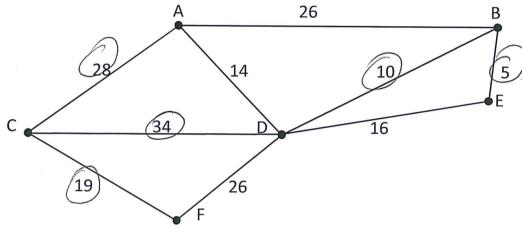
Special Instructions: No Calculator

Time Allowed: 18 minutes

Marks:

/ 18

1. Consider the following network where the numbers represent distances in km:



a. What is the shortest distance from C to E?

Hakm

b. Give the letters of the shortest path.

COBE

c. Fill in the table below where only direct links are shown (den't fill in shaded cells)

	A	В	С	D	E	F
A		26	28	14		Arres &
В	26			(10)	5	
C	28			34		(19)
D	(14)	10	34		16	26
Е		. (5)		16		
F			19.	(26)		

d. Use Prim's Algorithm on your table to determine the minimum spanning tree

14+5+10+26+19=74units

[2, 2, 4, 4: 12 marks]