Menoufia University Faculty of Engineering, Shebin El-Kom Civil Engineering Department



Subject: Water Collection & Networks Code: CVE 524 Year : Graduate Diploma Time Allowed : 3 hours Total Marks : 100 marks

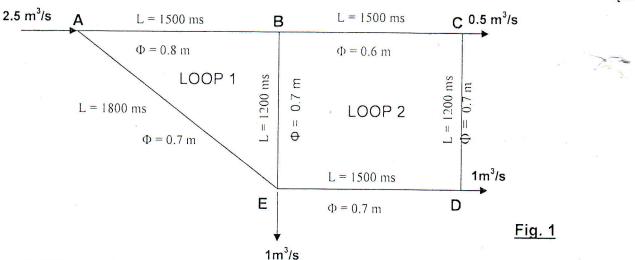
Date of Exam: 18 / 6 / 2016

Answer all the following questions:

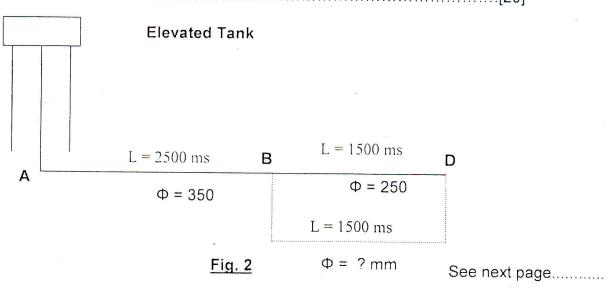
(Hazen-Williams formula or chart is accepted and any missing data can be assumed)

Question 1 (30 marks)

- a) What are the types of pipes used in water distribution systems?......[5]

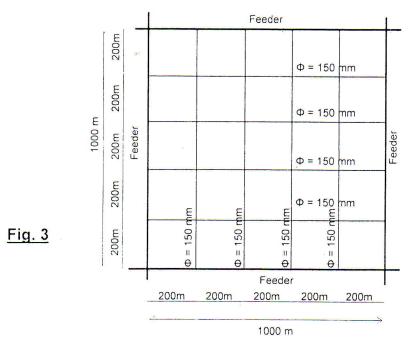


<u>Question 2 (</u>25 marks)



<u>Question 3 (</u>25 marks)

Investigate the minor pipes of the distribution system shown in Fig. 3. The required fire flow 400 lit/sec. Feeders are 1000 ms apart and the normal pressure in the feeders is 2.8 kg/cm².



<u>Question 4 (20 marks)</u>

End of Exam - Good luck

This exam measures the following ILOs														
Question Number	Q1-a	Q1-b	Q2-a	Q3	Q4-a	Q1-b	Q2-b	Q3	Q4-b	Q1-b	Q2-b	Q3	Q4-b	
Skills	al-l	al-2	al-1	a1-2	a1-2	b2-1	b2-1	b2-1	b2-1	cl-1	c1-1	c1-1	c1-1	
	Knowledge & Understanding Skills					Intellectual Skills					Professional Skills			