Menoufia University Faculty of Engineering, Shebin El-Kom Civil Engineering Department First Semester Examination, 2013-2014 Date of Exam: 45/1/2014



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

Answer all the following questions: (Hazen-Williams chart is allowed and any missing data can be assumed)

<u>Question 1 (</u>30 marks)

- a) What is the procedure in the design of water distribution system?......[5]



Question 2 (25 marks)

a) What is the meaning of equivalent pipe?......[5]

b) In the shown network Fig. 2 of a distribution system ABCDE, it is required to determine the diameter of the new pipeline DE established between points D and E, giving the following data :

Discharge **Q** = 210 lit/sec.

Pressure at A = 50 meter head.

Pressure at E = 20 meter head.....[20]



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