

University Of Kerbala

Subject: Medical Physics

College Of Engineering

Class : 1st Year

NOTE : Attempt all questions

Date : 14/ 1/ 2015

إسم الطالب :

1- What is negative pressure? Mention one place in human body where the pressure is negative.

2- Assume you are a diver preparing a 10 m dive.

a)What absolute pressure and gauge pressure will you experience?

b) How much the volume of your lungs? Normally your lungs have an available volume of 6 liters.

a)

b)

3- Atmospheric pressure is due to the weight of the air above us. The density of air is $1.3 \times 10^{-3} \text{ g/cm}^3$. What is the weight in dynes of 1 cm^3 of air? If this weight were spread over 1 cm^2 what would be the pressure