

**TEST: BIOPHYSICS
MAY 2021 SESSION**

Duration of the test: 1h30

The grading scale is as follows:

+1 point if all and only all correct statements are checked.

0 points if the correct answers are not checked.

Element 1: Biophysics of the different functions and organs

1-A perfect gas partially leaks from its container. When the leak is stopped, its pressure has lost 70% and its volume has decreased by 20%. The temperature remained constant. The percentage of gas particles losses are on the order of:

- A. 14%
- B. 24%
- C. 76 %
- D. 84 %
- E. 94 %

2- Pulmonary surfactants allow:

- A. the reduction of surface tension.
- B. the improvement of pulmonary compliance.
- C. the maintenance of the pulmonary alveoli dry.
- D. defense against pollutants and infectious agents.
- E. the modification of lung volume in response to a change in pressure.

At a temperature of 37 °C, the solubility coefficient of oxygen in plasma is 0.0237 liters of oxygen per liter of plasma and per atmosphere of oxygen. For a partial pressure of oxygen of at a pressure of 1.8 atm and at equilibrium, the volume of oxygen dissolved per liter of plasma, in cm³ is in order of :

- A. 13
- B. 23
- C. 26
- D. 43
- E. 76

4- We are trying to locate an air bubble with a radius $R = 0.01$ mm located at a depth h in a blood vessel. It is assumed that the vessel is positioned vertically and that the free surface of the blood and under atmospheric pressure.

We are given: the density of blood is 1.1, the ambient air pressure = 1 atm and the pressure inside the bubble is = 1.163×10^5 Pa, $\gamma = 76$ mN/m, $g = 10$ m/s², $\rho_{\text{air}} = 1$ g/cm³ 1 atm = 100 kPa

What is the value of h ?

- A. 5 cm
- B. 10 cm
- C. 14 cm
- D. 20 cm
- E. 80 cm

Biophysics Multiple Choice Questions And Answers

R Bogdan



Biophysics Multiple Choice Questions And Answers:

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