

**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

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Vital's Homoeopathic MCQ Companion Dr Vivek V Devan, Dr Haroon Ashraf, 2007-08-20 U.S. Environmental Protection Agency Library System Book Catalog Holdings as of July 1973 United States. Environmental Protection Agency. Library Systems Branch, 1974 **Current Catalog** National Library of Medicine (U.S.), 1968 First multi year cumulation covers six years 1965 70 *Annual Review of Biophysics and Bioengineering* L. J. Mullins, 1975 *Biochemistry* Terry Brown, 2016-09-22 Biochemistry is a major new textbook designed and created specifically for briefer courses in the subject Written by Prof Terry Brown of the University of Manchester author of Genomes and Gene Cloning the book provides the necessary detail and rigour expected for these courses but without the extraneous material found in the larger textbooks With an increasing number of students taking a short course in biochemistry there is a growing need for a book that covers the subject concisely and succinctly Biochemistry has been designed from the outset for these shorter courses it is not a cut down version of one of the larger books that dominate the market Although it is shorter there is no compromise in content style and coverage The book is attractively designed in full colour throughout with all the pedagogical features expected in a major textbook It covers what students should be expected to know and is written in the clear and accurate writing style for which Terry Brown is widely lauded With its competitive price and resources for adopting lecturers all of the illustrations and diagrams from the book and answers to the end of chapter questions Biochemistry will become the textbook of choice for any brief biochemistry course Confirmed Adoptions Biochemistry is already the required text at the following institutions Becker College USA Bishop Burton College UK Bournemouth University UK Charles R Drew University of Medicine and Science USA Charleston Southern University USA Colorado State University Pueblo USA Idaho State University USA Liverpool John Moores University UK Montclair State University USA Newcastle University UK Rivier University USA Southeast Missouri State University USA Staffordshire University UK Stephen F Austin State University USA Texas Christian University USA The University of Texas at Austin USA Ume University Sweden University of Aberdeen UK University of Bradford UK University of Bedfordshire UK University of Brighton UK University of the Incarnate Word USA University of Kansas USA University of Miami Miller School of Medicine USA University of Nottingham UK University of Roehampton UK University of Salford UK University of the West of England UK University of Tulsa USA Valley City State University USA Yale University School of Medicine USA Zoology for Degree Students (For B.Sc. Hons. 4rd Semester, As per CBCS) Agarwal V.K., 2022-01-03 This textbook has been designed to meet the needs of B Sc Hons Fourth Semester students of Zoology as per the UGC Choice Based Credit System CBCS Comprehensively written it explains the essential principles processes and methodology of Comparative Anatomy of Vertebrates Animal Physiology Life Sustaining Systems and Biochemistry of Metabolic Processes This textbook is profusely illustrated with over 550 well labelled diagrams not only to supplement the descriptions but also for sound understanding of the concepts *Journal of Allied Health* ,1982 U.S. Environmental Protection Agency Library

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