

**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

Agarwal V.K.



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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 Textbook of Medical

Biochemistry MN Chatterjea, Rana Shinde, 2011-10 The eighth edition of Textbook of Medical Biochemistry provides a concise comprehensive overview of biochemistry with a clinical approach to understand disease processes Beginning with an introduction to cell biology the book continues with an analysis of biomolecule chemistry molecular biology and metabolism as well as chapters on diet and nutrition biochemistry of cancer and AIDS and environmental biochemistry Each chapter includes numerous images multiple choice and essay style questions as well as highlighted text to help students remember the key points

The Journal of the American Dental Association American Dental Association, 1971 U.S. Environmental Protection Agency Library System Book Catalog United States. Environmental Protection Agency. Library Systems Branch, 1970 Includes the monographic collection of the 28 libraries comprising the Library System of the Environmental Protection Agency

American Book Publishing Record, 1984-04 **Author-title Catalog, Subject Catalog** University of California, San Diego. Biomedical Library, 1971

Evaluation of Tape-slide Guides for Library Instruction Philip James Hills, L. M. A. Lincoln, L. P. Turner, 1977

Books in Series, 1985 Vols for 1980 issued in three parts Series Authors and Titles

Journal of Dental Education, 1979 Includes section Book reviews *Subject Catalog*, 1976 Library of Congress, 1976

Subject Catalog Library of Congress, 1977 *The American Journal of Medical Technology*, 1966

New Zealand Books in Print, 1989 **Author Catalog** National Library of Medicine (U.S.), 1962 Vols for 1951 53 include Authors and Subjects

The Top Books of the Year Biophysics Multiple Choice Questions And Answers The year 2023 has witnessed a noteworthy surge in literary brilliance, with numerous captivating novels captivating the hearts of readers worldwide. Lets delve into the realm of bestselling books, exploring the captivating narratives that have captivated audiences this year. The Must-Read : Colleen Hoover's "It Ends with Us" This touching tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover expertly weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can succeed. Uncover the Best : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This intriguing historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids captivating storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Biophysics Multiple Choice Questions And Answers : Delia Owens "Where the Crawdads Sing" This captivating coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens spins a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These bestselling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of captivating stories waiting to be discovered. The novel begins with Richard Pape, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a brilliant and gripping novel that will keep you speculating until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

https://matrix.jamesarcher.co/data/uploaded-files/fetch.php/fitness_training_manual_collection.pdf

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