

Unit 3 and 4 Biology 2022:

Unit 3, AOS 2, Outcome 1 Topics 6 and 7

Alternate 3

Experimental Design and AOS 2: How are biochemical pathways regulated?

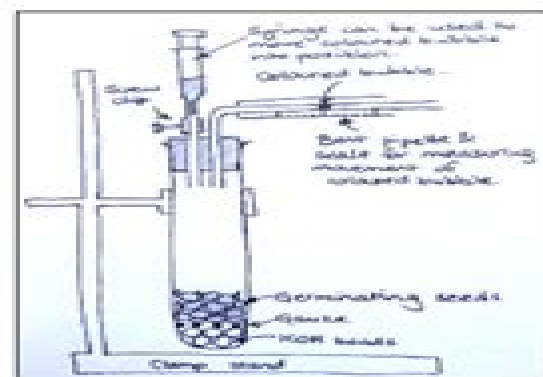
Name: _____

Circle your teacher: CHE KIS FAH

Part A: Experimental Design (11 marks)

A respirometer is a set up that can be used to measure the amount of oxygen consumed by an organism during cellular respiration and so can be used to measure respiration rate. A simple respirometer is shown in the diagram. The carbon dioxide produced during respiration is absorbed by the potassium hydroxide (KOH). As the oxygen is used up, the coloured bubble in the glass tube moves. Measuring the movement of the bubble allows an estimation of the change in volume of gas and therefore the rate of cellular respiration.

Students examining aerobic respiration set up 5 respirometers, according to the table below.



	Tube A	Tube B	Tube C	Tube D	Tube E
Germinating seeds	0	2	4	8	20
KOH beads	10	10	10	10	10
Starting position of the coloured bubble	10mL	10mL	10mL	10mL	10mL

Question 1

a. What is the independent variable for this experiment? (1 mark)

b. What are three environmental factors that need to be controlled in this experiment? (3 marks)

Unit 3 Sac 2 Biology

M Walker



Unit 3 Sac 2 Biology:

Jacaranda Nature of Biology 2 VCE Units 3 and 4, LearnON and Print Judith Kinnear, Marjory Martin, Lucy Cassar, Elise Meehan, Ritu Tyagi, 2021-10-29 Jacaranda Nature of Biology Victoria's most trusted VCE Biology online and print resource The Jacaranda Nature of Biology series has been rewritten for the VCE Biology Study Design 2022 2026 and offers a complete and balanced learning experience that prepares students for success in their assessments by building deep understanding in both Key Knowledge and Key Science Skills Prepare students for all forms of assessment Preparing students for both the SACs and exam with access to 1000s of past VCAA exam questions now in print and learnON new teacher only and practice SACs for every Area of Study and much more Videos by experienced teachers Students can hear another voice and perspective with 100s of new videos where expert VCE Biology teachers unpack concepts VCAA exam questions and sample problems For students of all ability levels All students can understand deeply and succeed in VCE with content mapped to Key Knowledge and Key Science Skills careful scaffolding and contemporary case studies that provide a real word context eLogbook and eWorkbook Free resources to support learning eWorkbook and the increased requirement for practical investigations eLogbook which includes over 80 practical investigations with teacher advice and risk assessments For teachers learnON includes additional teacher resources such as quarantined questions and answers curriculum grids and work programs

A Manual of Practical Zoology: Biodiversity, Cell Biology, Genetics & Developmental Biology Part-1 M.M. Trigunayat, Kritika Trigunayat, 2019-02-01 A Manual of Practical Zoology Part 1 is written as per the syllabi adopted for B Sc Part 1 of various Indian Universities This Manual covers exercises assigned in the Syllabi of undergraduate curriculum of part 1 including Cell Biology Genetics Development Biology and Biodiversity The main feature is the unique style of text to museum specimens covering various aspects of information such as Common name Distribution Habit and Habitat Characters of identification Special characters Biological importance and Economic importance In fact the marks of spotting are based on such information Biodiversity based exercises are unique feature of this book generally lacking in books available in the market The figures are simple and easy to draw

Human Biology Activities Kit John R. Roland, 1993-08-05 This collection of over 200 classroom tested activities and reproducible worksheets for students in grades 7 through 12 covers vital concepts in human biology and health including extensive coverage of AIDS These high interest lessons and worksheets get students actively involved in learning even students who are poorly motivated learning disabled or who lack English proficiency The lessons are written so you can easily accommodate your students various learning styles whether it's visual auditory and tactile Each lesson helps students make connections between new material and concepts they're already familiar with The book features 11 units covering all the body's systems such as circulatory digestive and immune systems and offers a detailed look at cells bones muscles and more Each unit provides enjoyable hands on activities that engage secondary students from building a cell model and testing foods for carbohydrates

to dissecting a frog and making an action cartoon of a macrophage battling a microorganism For convenience the lessons are printed in a big spiral bound format that folds flat for photocopying

S CHAND'S ICSE BIOLOGY BOOK 1 FOR CLASS IX Sarita Aggarwal, S Chand s ICSE Biology by Sarita Aggarwal is strictly in accordance with the latest syllabus prescribed by the Council for the Indian School Certificate Examinations CISCE New Delhi The book aims at simplifying the content matter and give clarity of concepts so that the students feel confident about the subject as well as the competitive exams

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Zoology For B.Sc. Students Semester I | Diversity and Biology of Non-Chordata : NEP 2020 University of Lucknow VK Agarwal, This textbook has been designed to meet the needs of B Sc First Semester students of Zoology for the University of Lucknow under the recommended National Education Policy 2020 It comprehensively covers theory and practical papers namely Diversity and Biology of Non Chordata The theory part of this book aptly discusses the identification and classification of non chordate animals on the basis of their form and structure and describes the general characters of non chordate animals Practical part of the book will make the students understand the taxonomic position and body organization of invertebrates Relevant experiments corresponding to the theoretical topics and examples have been presented systematically to help students achieve sound conceptual understanding and learn experimental procedures

Longman Complete Guide Ol Biology 2/e, **Science of Life: Biology Parent Lesson Plan** ,2013-08-01 The Science of Life Biology Course Description This is the suggested course sequence that allows one core area of science to be studied per semester You can change the sequence of the semesters per the needs or interests of your student materials for each semester are independent of one another to allow flexibility Semester 1 Intro to Science Have you ever wondered about human fossils cave men skin color ape men or why missing links are still missing Want to discover when T Rex was small enough to fit in your hand Or how old dinosaur fossils are and how we know the age of these bones Learn how the Bibles world view not evolution s unites evidence from science and history into a solid creation foundation for understanding the origin history and destiny of life including yours In Building Blocks in Science Gary Parker explores some of the most interesting areas of science fossils the errors of evolution the evidences for creation all about early man and human origins dinosaurs and even races Learn how scientists use evidence in the present how historians use evidence of the past and discover the biblical world view not evolution that puts the two together in a credible and scientifically sound way Semester 2 Life Science Study clear biological answers for how science and Scripture fit together to honor the Creator Have you ever wondered about such captivating topics as genetics the roll of natural selection embryonic development or DNA and the magnificent origins of life Within Building Blocks in Life Science

you will discover exceptional insights and clarity to patterns of order in living things including the promise of healing and new birth in Christ Study numerous ways to refute the evolutionary worldview that life simply evolved by chance over millions of years The evolutionary worldview can be found filtered through every topic at every age level in our society It has become the overwhelmingly accepted paradigm for the origins of life as taught in all secular institutions This dynamic education resource helps young people not only learn science from a biblical perspective but also helps them know how to defend their faith in the process

Oswaal NTA CUET (UG) 10 Mock Test Papers Biology (For 2025 Exam) Oswaal Editorial Board,2024-09-05 The National Testing Agency NTA under the directive of the Ministry of Education and the UGC has been entrusted with conducting the Common University Entrance Test CUET for admissions into undergraduate programs at Central Universities under the Ministry of Education This test is the gateway for admission into undergraduate programmes at Central Universities under the Ministry of Education as well as other participating universities institutions organizations and autonomous colleges The CUET UG curriculum is based on the syllabus issued by NTA CUET UG scores are mandatory required while admitting students to undergraduate courses in 283 Central States and other participating universities institution organisations for the Academic Session 2024 25 The MCQ based hybrid question paper will include language specific domain and general topics sections Participating universities organizations will prepare a merit list and may conduct individual counselling based on the CUET UG scorecard provided by the NTA Oswaal CUET UG Sample Question Paper is your strategic companion designed to elevate your performance and simplify your CUET journey for success in this computer based test Here s how this book benefits you Valuable Exam Insights with Latest Solved Paper 2024 Crisp Revision with On Tips Notes Updated Mind Maps Extensive Practice with 700 approx Questions Concept Clarity with 250 Explanations Expert Tips to crack the exam in 1st Attempt In 2024 nearly 15 lakh candidates registered for CUET UG Though the test may feel challenging the right preparation and resources can help you secure a top rank With dedication and the right tools you can excel and gain admission to your preferred Central University Best of luck let these Mock Papers be your trusted partner on your path to success

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Reviewing **Unit 3 Sac 2 Biology**: Unlocking the Spellbinding Force of Linguistics

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