

Meiosis and Mendel

Study Guide B**Answer Key****SECTION 1. CHROMOSOMES AND MEIOSIS**

1. somatic/body cells; germ cells/gametes
2. in the reproductive organs; testes and ovaries
3. 46
4. mother
5. father
6. autosomes
7. X
8. Y
9. female
10. Y chromosome
11. They fuse together.
12. gametes
13. 23
14. 22; 1
15. Mitosis makes diploid cells; Meiosis makes haploid cells; Mitosis makes genetically identical cells; Meiosis makes genetically unique cells; Mitosis happens throughout lifetime; Meiosis happens at specific times in an organism's life cycle; Mitosis involved in asexual reproduction; Meiosis involved in sexual reproduction
16. a pair of chromosomes, one from the mother and one from the father, that have the same genes, length, and overall appearance
17. autosomes: chromosomes that directs the body's development; all traits not directly related to sexual

SECTION 2. PROCESS OF MEIOSIS

1. sister chromatid
2. homologous chromosomes
3. Refer to Figure 2.3 for visual answers:
prophase I
4. metaphase I
5. anaphase I
6. telophase I
7. prophase II
8. metaphase II
9. anaphase II
10. telophase II

11. anaphase I
12. anaphase II
13. DNA
14. DNA, organelles, molecules building blocks
15. female
Sperm Formation/Egg Formation: Refer to Figure 2.4 for visual answers.
16. Gametogenesis is the "birth" or formation of gametes.
17. cells produced by mitosis in the female body that contain little more than DNA and are eventually broken down

SECTION 3. MENDEL AND HEREDITY

1. the study of biological inheritance patterns and variation in organisms
2. Gregor Mendel
3. Mendel recognized that traits are inherited as discrete units, whereas many others believed that traits were mixed together.
4. control over breeding; removed the stamens and fertilized the plant with pollen from a pea plant of his choice
5. one of purebred plants: used self-pollinating, purebred pea plants
6. studied "either-or" traits; looked at traits that did not have intermediate characteristics such as pea shape, pea color, flower color, pod shape, pod color, flower position, and plant height
7. Pea plants reproduce quickly, and he could control how they mate.
8. Box 2: Allowed F₁ offspring to self-pollinate. Box 4: Calculated the phenotypic ratios in the F₂ generation.
9. green
10. Organisms inherit two copies of each gene, one from each parent. Genes segregate during gamete formation, so organisms donate only one copy of each gene in their gametes.
11. the discrete units, or genes; the result of the separation of chromosomes during meiosis
12. a genetically uniform line of organisms

Section 2 Biology Answer Key

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to obtain certification within California and or Oregon Resources in Education ,2000 **IELTS The Ultimate Unofficial Guide** , *Concepts of Medicine & Biology Parent Lesson Plan* ,2013-08-01 Concepts of Medicine and 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 Medicine From surgery to vaccines man has made great strides in the field of medicine Quality of life has improved dramatically in the last few decades alone and the future is bright But students must not forget that God provided humans with minds and resources to bring about these advances A biblical perspective of healing and the use of medicine provides the best foundation for treating diseases and injury In Exploring the History of Medicine author John Hudson Tiner reveals the spectacular discoveries that started with men and women who used their abilities to better mankind and give glory to God The fascinating history of medicine comes alive in this book providing students with a healthy dose of facts mini biographies and vintage illustrations Semester 2 Biology The field of biology focuses on living things from the smallest microscopic protozoa to the largest mammal In this book you will read and explore the life of plants insects spiders and other arachnids life in water reptiles birds and mammals highlighting God s amazing creation You will learn about biological classification how seeds spread around the world long term storage of energy how biologists learned how the stomach digested food the plant that gave George de Mestral the idea of Velcro and so much more For most of history biologists used the visible appearance of plants or animals to classify them They grouped plants or animals with similar looking features into families Starting in the 1990 s biologists have extracted DNA and RNA from cells as a guide to how plants or animals should be grouped Like visual structures these reveal the underlying design of creation Exploring the World of Biology is a fascinating look at life from the smallest proteins and spores to the complex life systems of humans and animals **Study Guide for McCance & Huether's Pathophysiology - E-Book** Julia Rogers,2022-12-26 NEW Thoroughly revised and updated information mirrors content from the 9th edition of the McCance Huether s Pathophysiology textbook NEW Over 40 detailed case scenarios provide real world examples of how pathophysiology is used in the clinical setting helping you integrate knowledge develop clinical judgment and apply theory to practice *Examining the Examinations* E.D. Britton,S. Raizen,2012-12-06 Examining the Examinations looks at the required advanced science and mathematics examinations taken by university bound students in seven countries This research focuses on topics covered types of questions used and performance expected from students The book concentrates on comparisons of the examinations illustrating their similarities and differences with selected questions taken from the actual examinations The international comparisons presented offer a window on educational laboratories in seven countries

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should know for the exam biology chemistry anatomy and physiology and physics Practice exams with answers and detailed explanations Cooperative Learning in Higher Education Barbara Millis, 2023-07-03 Research has identified cooperative learning as one of the ten High Impact Practices that improve student learning If you've been interested in cooperative learning but wondered how it would work in your discipline this book provides the necessary theory and a wide range of concrete examples Experienced users of cooperative learning demonstrate how they use it in settings as varied as a developmental mathematics course at a community college and graduate courses in history and the sciences and how it works in small and large classes as well as in hybrid and online environments The authors describe the application of cooperative learning in biology economics educational psychology financial accounting general chemistry and literature at remedial introductory and graduate levels The chapters showcase cooperative learning in action at the same time introducing the reader to major principles such as individual accountability positive interdependence heterogeneous teams group processing and social or leadership skills The authors build upon and cross reference each others chapters describing particular methods and activities in detail They explain how and why they may differ about specific practices while exemplifying reflective approaches to teaching that never fail to address important assessment issues *What Is Life?* Jay Phelan, Jennifer Warner, Meredith Norris, 2009-04-03 Jay Phelan's *What Is Life: A Guide to Biology* is written in a delightfully readable style that communicates complex ideas to non biology majors in a clear and approachable manner After reading Phelan's book students will understand why they would want to know and talk about science His skillful style includes asking stimulating questions called Q questions which encourage the student to keep reading to find the answer and will illuminate just how relevant science is to their life Visit the *What Is Life* preview site at www.whfreeman.com/phelanpreview

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web jan 29 2020 solution number of moles of solute ethyl alcohol $n_b = 23 \text{ g} / 46 \text{ g mol}^{-1} = 0.5 \text{ mol}$ number of moles of solvent water $n_a = 54 \text{ g} / 18 \text{ g mol}^{-1} = 3 \text{ mol}$ total number of moles $n_a + n_b = 0.5 + 3 = 3.5 \text{ mol}$ mole fraction of solute ethyl alcohol $x_b = n_b / n_a + n_b = 0.5 / 3.5 = 0.1429$

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web question 1 find the mole fraction of methanol CH_3OH and water in a solution prepared by dissolving 4.5 g of alcohol in 40 g of H_2O molar mass of H_2O is 18 g/mol and molar mass of CH_3OH is 32 g/mol solution moles of CH_3OH $4.5 / 32 = 0.14$ mole moles of H_2O $40 / 18 = 2.2$ moles therefore according to the equation

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web we used mole fractions in gen chem 1 to describe gas mixtures where the partial pressure of a gas was its mole fraction time the total pressure $p_a = x_a p_{\text{total}}$ mole fraction $x_a = \frac{\text{moles } a}{\text{total moles}}$ mole fraction of substance a is often denoted by x_a and

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web 1 in the given mixture the sum of all the mole fractions is equal to one $x_a + x_b + \dots = 1$ the multiplication of the mole fraction by 100 gives the mole percentage 3 mole fraction is a unitless and dimensionless expression advantages of molar fraction mole fraction is not dependent on the temperature

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web nov 6 2023 $x_a = \frac{\text{mol } a}{\text{mol } a + \text{mol } b}$ and $x_b = \frac{\text{mol } b}{\text{mol } a + \text{mol } b}$ note in the given mixture the sum of all the mole fractions

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web solution total mass of the answer 100 g mass of benzene 30 g therefore mass of carbon tet 100 30 g benzene s molar mass C_6H_6 128 g mol⁻¹ hence C_6H_6 s number of moles $\frac{30}{128}$ mol 0 2344 mol molar mass of carbon tet CCl_4 154 g mol⁻¹

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web jan 30 2020 ans the molality of solution is 1 mol kg⁻¹ or 1 m example 0 2111 g of urea NH_2CONH_2 was dissolved in 100 g of water calculate the molarity and molality of the solution given n 14 h 1 c 12 o 16 given mass of solute urea 11 11 g mass of solvent water 100 g 0 1 kg to find molarity of solution solution

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web you may work out the mole fractions on your own problem 5 what is the mass of a sample of a 0 449 molal kbr that contains 2 92 kg of water 1 molality moles solute divided by kilograms solute 0 449 mol kg x 2 92 kg x 1 31108 mol of kbr 2 moles times molar mass equals grams 1 31108 mol 119 0023 g mol 156 g kbr

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web calculate the mass percent mole fraction molality and molarity of hexane C_6H_{14} d 0 660 g cm⁻³ when it is mixed with heptane C_7H_{16} d 0 684 g cm⁻³ in a 35 0 55 0 ml ratio assume that the volumes are additive

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web notice that the mole fraction has no units on it and is written as a decimal value do not change it to percent note of caution you could see the term mole percent it is simply the mole fraction multiplied by 100 for example in the problem just

below the mole fraction of cinnamic acid is 0.2885 its mole percent would be 28.85

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