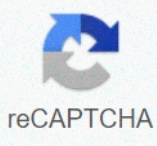




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Day 1 Multiple Choice Questions 10 Points Part A and B-1 Practice Home: Answer all questions on this day before stopping. 1. Two closely related bird species live in the same tree. Species A feeds on n1. What particle is charged negatively? ants and termites, while species B feeds on caterpillars. The two species successfully co-exist. [1] electron (3) because (4) proton (2) neurons (1) do each acquire a different niche 2. A malleable and good heat conductive element and (2) crosslinked organic solids could have an atomic number of 13 (2) different breeding methods (1) 16 (4) birds competing for food (3) 29 (2) 18 (4) 35 2. A human liver cell is very different in structure and function of a nerve cell in (3). The chemical bond in sodium phosphate, Na_2PO_4 , is classified as the same person. This is best explained by the fact that (1) ion, only (2) metallic, only (1) different genes work in each cell type (3) both covalent and ion (2) hydrocarbon? (1) organ systems of cell tissues (1) Propanol (3) propene (2) organ cells and tissue systems (2) propanol (4) propyne (2) tissue organ cell systems (4) organ tissue cells very different 6. A beta particle can spontaneously emit from (1) a soil state atom (2) a stable nucleus n reaches the local capacity of its habitat. 4. After a population of rabbits (3) a population of excited rabbit electrons most likely (4) an unstable nucleus (1) decrease, only (2) increase, only 7. The compound C2H4 and C4H8 have the same (3) increase and decrease alternative (1) freezing point at standard temperature (2) boiling point at standard temperature (3) molecular formula (4) empirical formula 5. Much of the carbon dioxide produced by green plants is not excreted as a metabolic residue because (1) it can be used for photosynthesis (2) it is too large to pass through cell membranes (3) it is necessary for cellular respiration (4) it can be used for the synthesis of Copyright © 2014 EDC Scholastic Publishing products. All rights reserved 1 day 1 continue. 6. What part of a molecule provides energy for life processes? 8. What particle diagram represents a mixture of elements and one (1) composed of chemical bonds of carbon atoms (3) (2) oxygen atoms (4) inorganic nitrogen 7. To increase the chances of a successful organ transplant, the person receiving the organ must (1) have the same blood type as the donor (2) have the same blood type as the recipient (3) have the same blood type as the donor and the recipient (4) have the same blood type as the donor and the recipient 8. A plant that grows in a garden (3) a crows feeds on the remains of a dead rabbit on the road (4) a lion's stem, kills and eats an antelope 9. In order to reduce consumption of non-renewable resources, humans could (1) burn coal to heat homes instead of using (2) solar radiation domestic water (3) increase industrialization (4) use a barbeque natural gas grill instead of using charcoal 9. What is the total amount of heat absorbed per 100.0 grams of water when the water temperature is increased from 30.0 °C to 45 °C (1) 418 J (2) 418 J (3) 500 J (2) 6270 J 9. energy (4) 18000 J 8. water C. oxygen D. minerals What factors limit environmental transport capacity in a terrestrial ecosystem? (1) A, only (3) A, C, and D, only (2) B, C, and D, only (4) A, B, C, and D Day 1 Stop. Check your answers and note how many Correct Points Day 1 Multiple Choice Questions 10 Answer Points and Explanations 1. Each of the two species feeds on different insects in the same habitat (tree), therefore two species are not in 1 Note: The key phrase in this question is negatively charged component. Remember: Electrons are negatively charged particles NOT in competition, different functions (functions) in a habitat. 2 Remember: Malleability and good conductor are physical properties of metals. Recall: Element 29, Copper, is a metal 2. The word gene refers to a unit of hereditary information that codes for a specific trait. 3 Remember: The pressure-temperature ratio of the steam is 1 Table H Use Reference Table H to determine the response. One cell is different from another because each cell type contains a unique set of genes (or instructions). 2 Remember: Saturated hydrocarbons are alkanes. Recall: Propane (with –ane final name) is an alkane. 3. C-OTOS cell – less complex 4 Remember: In nuclear radioactivity, ONLY unstable nuclei spontaneously disintegrate the issue by emitting a beta particle, alpha or positron particle. Organ 7) A Note: Both C2H4 and C4H8 can be reduced (by Greatest Factor of 2) System – the most complex to empirical formula of CH 2 9.4 Recall: One element is composed of one or more of the same atom. 4. 3 The potential homeostasis (stability) of any organism is a compound composed of two or more different atoms. 15 increase and decrease in note: (organ) 4 saw a mixture of the two. number of organisms in the ecosystem. 9) 2 Remember: heat capacity (2) receive potential increase from Table 7.2 due to birth. Note: This heat question involves changing the temperature. Precipitation decline is due to death. Choose the correct heat equation, q = m C ΔT to configure and resolve Confusion: q = m C ΔT x Population homeostasis is required for survival Resolve: q = (100) (4) 18 (15) to 6270 J of rabbit species (note: diagram) 10. 1 Remember: Table G gives the general formula for alkanes, CnH2n+2 Carbon dioxide (CO2) is a greenhouse gas. 11 Remember: The greenhouse effect is caused by the greenhouse gases. 12 Remember: The greenhouse effect is caused by the greenhouse gases. 13 Remember: The greenhouse effect is caused by the greenhouse gases. 14 Remember: The greenhouse effect is caused by the greenhouse gases. 15 Remember: The greenhouse effect is caused by the greenhouse gases. 16 Remember: The greenhouse effect is caused by the greenhouse gases. 17 Remember: The greenhouse effect is caused by the greenhouse gases. 18 Remember: The greenhouse effect is caused by the greenhouse gases. 19 Remember: The greenhouse effect is caused by the greenhouse gases. 20 Remember: The greenhouse effect is 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The A shown below is a typical red onion cell in water on a slide seen on 20x magnification of bonds per composite light microscope molecule. In 6 formula X2O, the X symbol could represent an element in Group 1 (1) 3 (15) 2 (2) 4 (8) or 17. Molarity is defined as Drawing a diagram of how a bright line spectrum (1) litums of solutes per kilogram of solvent care after salt water has been (2) molute moles per liter of addition added to the slide and label the cell membrane in the Cell Diagram. [2] 29 mass of a solution (d) volume of solvent Copyright © 201 ES Scholastic Publishing. All rights reserved 13 Day 3 Continue. Base your answers to questions 5 and 6 on the information and data table below and on your biology knowledge. 8. The following diagram depicts the bright line spectra of four elements One student cut three identical slices of a potato. It determined the mass and a bright line spectrum produced by a mixture of two of these elements, then placed them in labeled glasses and added a different slice each slice. She solves every glass. After 30 minutes, he removed each slice of potato from his solution, removed the excess liquid with a paper towel and determined the dough of each slice. the mass was calculated and the results are shown in the data table below. What two elements are in this mix? (1) barium and hydrogen (3) helium and hydrogen (2) barium and lithium (4) helium and lithium 5. Identify the process that is responsible for the mass change of each of the 9. What it shows, when dissolved in 1.0 liters of water, it produces three slices. [1] Solution with lowest freezing point. [1] 0.1 mol of C2H5OH

Explain why potato slice in beaker 1 increased in mass from [1] during geological formations (2) industrial measurements Base your answers to questions 7 through 9 on the diagram below and on your biology knowledge. The diagram shows the results of a technique used to analyze DNA. 7. This technique used to analyze DNA directly results in (1) synthesizing large DNA fragments (2) separating DNA fragments based on size (3) producing genetically engineered DNA molecules (4) eliminating larger DNA fragments from samples (5) This laboratory technique is known as (a) gel electrophoresis (2) DNA replication (3) protein synthesis (4) genetic recombination 9. Indicate a specific way in which the results of this laboratory technique could be used. [1]

1 point According to the paragraph: Acetylcholine helps to carry nerve signals. A special enzyme is present to destroy Acetylcholine. LSD blocks the action of the enzyme that destroys Acetylcholine. Question: What is the indirect effect of LSD on the action of Acetylcholine? Acceptable Answers include, but not limited to: The work of Acetylcholine would/ought continue/continues. Nerve signals wouldn't go out. Cellular communication would not be interrupted. 2. 1 point Energy is needed for many living functions of living organisms. Acceptable responses include, but are not limited to: Some of the energy is lost as heat (during cellular breathing). Some of the energy is used by mice for the functions of life. 3. 1 point Nutrients in food are made up of large molecules. Digestion breaks down these large molecules into smaller ones, acceptable responses include, but are not limited to: Certain food are too large to pass through the cell membrane. Some of the food is too large to be absorbed. 4. 1 point Repeating this process over many years, growers eventually produced a marginal flower that is considered the first white variety of their species. This procedure is known as (1) differentiation (2) cloning (3) selective reproduction 2. What structures are listed in order from least complex to most complex? (1) plant cell, liver, chloroplast, rose (2) chloroplast, vegetable cell, liver, rose (3) chloroplast, leaf, vegetable cell, rose (4) rose bushes, leaf, vegetable cell, chloroplast 5. Viruses often infect bacteria and insert new genetic material into the genetic material of bacteria. When these infected bacteria reproduce asexually, what genes would likely be transmitted? (1) only the new genes (2) only the original genes (3) both the original and the new genes 6. German measles is a disease that can damage an embryo if the mother is infected in the early stages of pregnancy. The disease is caused by a virus. Which of the following is a true statement about the disease? (1) German measles is a bacterial disease. (2) German measles is a viral disease. (3) German measles is a fungal disease. (4) German measles is a parasitic disease. 7. The following table shows the relative resistance of some animals to various diseases. Which animal is least likely to survive in a tissue culture environment? (4) Over time, these animals will be more likely to be resistant to the copyright of diseases © 2013 Scholastic Publishing. All rights reserved. 10 Day 5 Multiple Choice Questions 10 Points with Charts, Tables and Diagrams Begins: Answer all questions on this day before stopping. 1. What is the mass number of a carbon atom containing six protons and six neutrons? (1) 6 (2) 12 (3) 18 (4) 24 2. Which of the following is a true statement about the periodic table? (1) The periodic table is organized by atomic number. (2) The periodic table is organized by atomic mass. (3) The periodic table is organized by chemical properties. (4) The periodic table is organized by physical properties. 3. (1) human (3) stomach (2) tissue H 2O (4) organelle (4) NH4Cl (c) NH4 (d) + Cl (aq) + 2. What process is illustrated in the following diagram? 4. Compared to the freezing and boiling point of water at 1 atm, the freezing and boiling point of water at 1 atmosphere has (1) lower freezing point and a higher boiling point (2) lower freezing point and a lower boiling point (3) higher freezing point and a lower boiling point (4) a higher freezing point and a higher boiling point 5. What word equation represents a neutralization reaction? (1) base + acid → salt + water (2) base + salt → acid + water (3) acid + salt → water (4) acid + base + water (4) salt + water → acid + base (1) chromatography (4) Which particle has the highest mass? (2) direct collection (3) meiosis (4) a positron (2) a beta particle (4) genetic engineering Copyright © 2013 Scholastic Publishing. 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1. After a hormone enters the bloodstream, it is transported throughout the body, but the hormone affects only certain cells. The reason only certain cells are affected is that the membranes of these cells have specific receptors (1) (3) antibodies (2) tissues (4) carbohydrates 2. Organisms that reproduce asexually transmit hereditary information such as (1) sequences of chains A, T, C and G (2) of complex amino acids (3) folded protein molecules (4) simple inorganic sugars 3. In a group of fungi exposed to a poisonous chemical, only a few of the fungi survived. The best explanation for the resistance of the surviving fungi is that the resistance (1) was poisonous chemical fungi (2) resulting from the presence of mutagens in fungi (3) were transferred through the food network to fungi (4) developed in response to poisonous chemical fungi. 4. The experiments revealed the following information about a certain molecule — It can be broken down into amino acids — It can break down during high concentrations — It is found in high concentrations in the small intestine of humans. This molecule is more likely (1) an enzyme (3) a hormone (2) an inorganic compound (4) an antigen 5. In 1869, a small colony of 24 rabbits was brought to Australia. In 1928 it was estimated that there were 500 million rabbits in a 1 million square mile section of Australia. What statement describes a condition that led to the increase in the rabbit population? (1) Rabbits had no predators in Australia. (2) Rabbits had many predators in Australia. (3) Rabbits reproduced very rapidly. (4) Rabbits ate only grass.

1WV.ePwU1eJchShAeNcnsrhtCaataatdfoHmomsmbmsclomstosvbm7o7enostwslayespsearnsdscysctshpaeacrsruellitofthohshbednglediedAn atom consists of at least three types of subatomic particles (3) An electron has a positive charge and is located within the nucleus (4) An electron has mass and particle properties 2. Which atom has an atom with the greatest attraction in a chemical link? (1) As (3) N (2) B (4) P(3231...)

(WV)2PdZnHnnBnCBoitAAOeh2ndtncsrousrnttcroogduhmlascepterhoedspelffrdrsoesocdpDtsNaOpcnAmptiothlaarbt rsmisotcorpsdesordel(dui43unb)eyor? NCethHdeHdeHde3ce2heLlel. (4) Cells make DNA by digesting proteins. 4. In which sample is the mean kinetic energy of the particles higher?? C(e212jU115i0a... kmmC+Lmooffw hHnCCaCl(aatiqg)naaitz52fKloouCsatred in th(e344y11e+5)... rmmamL boeeffHwHZ2WO...) (3) 25°C to 30°C 5. The scientific name of two different organisms changes towards (1) less energy and less disorder (2) less energy and more disorder (3) increased energy and less disorder (4) increased energy and more disorder 6. The equation of half a reaction that represents the reduction of a potassium ion? (1) K++ + e- → K (2) K++ + e- → HNO3K++ + e- → s-enkgt(K++ + e- → K (3) K++ + e- → O2 (4) K++ + e- → Cl

Bioscience Resource Project: Unit 1: Cell Biology
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Involved in protein synthesis and indicating how each substrate works in protein synthesis (2). The graphs below show the dissociation curves for oxygen content and fish species. (1) Take between 1950 and 1970. The unbalanced equation below represents the breakdown of potassium chlorate. KClO3(g) → K(g) + Cl2(g) + O2. Balance the equation below using balanced integer coefficients. (1) KClO3 →→→ K(g) + Cl2(g) + O2 (2) 4. Determine the number of chlorine oxidized in the reagent. [1] Indicate what happened to the amount of dissolved oxygen and the number of fish species as the amount of wastewater increased. [1]

When an organism or species 3. prevent harm to their hosts, women should avoid too much alcohol and, like the toothed bird, stop taking certain medications during pregnancy. Indicate a way that one of these amounts of C-14 present in the mammoth began to decrease. For example, substances could harm the fetus. [H] If a fossil of a woolly mammoth was found to have 73% of the amount of C-14 found in a living organism.

Copyright © 201 E3 Scholastic Publishing. All rights reserved. Any questions asked by A-B-1 Practice Home: Answer all questions on this day before stopping. 1. Which two systems are most directly involved in the supply of molecules needed for fat synthesis in humans? (1) digestive and circulatory (2) excretory and digestive (3) immune and muscle (4) reproductive and circulatory 2. The abiotic factors that characterize a forest ecosystem include (1) light and biodiversity (2) temperature and amount of water available (3) types of producers and decomposers (4) pH and number of heterotrophs 3. The presence of some similar structures in all vertebrates suggests that these vertebrates (1) all developed at the same time (2) evolved from different animals that appeared on Earth at the same time (3) all develop independently and depend on nutrients supplied by the mother (4) may have had a common ancestor

insulin, helping humans keep blood sugar levels stable. 5. All chemical decomposition processes in cells directly involve (1) catalyst-controlled reactions (2) enzymes that are stored in mitochondria (3) the production of catalysts in vacuoles (4) enzymes that have the same copyright © 201 E3 Scholastic Publishing genetic base sequence. All rights reserved. 5/7 Day 11 Multiple Choice Questions 10 points with Charts, Tables and Diagrams Begin: Answer all questions on this day before stopping. 1. What phrase belongs to box X of the flowchart below? (1) Increased likelihood of cancer (2) Increased production of functional gametes (3) Decreased genetic variability of offspring (4) Decrease in the number of altered genes 2. What graph illustrates changes that indicate a dynamic equilibrium state in a mosquito population? 3. The following diagram shows a cell in the human body that envelops a bacterial cell. The cell is (1) a phagocyte (2) a red blood cell (3) a lymphocyte (4) a macrophage

The total number of valence electrons in an atom of the element (2) chlorine which has the highest density 2. When brown tree snakes were accidentally introduced to the island of Guam, (3) chlorine had no natural predators. These snakes ate guano and ate many of the eggs of (2) carbon (4) copper of insect-eating birds. What probably happened after the introduction of brown tree snakes? 3. What question does the preservation of atoms show? (1) H + O → H₂O; (2) H₂O → H₂; (3) H₂O → H₂; (4) 2H₂O → H₂ + O₂ 4. (2) ————; (3) ————; (4) ————; (5) ————; (6) ————; (7) ————; (8) ————; (9) ————; (10) ————; (11) ————; (12) ————; (13) ————; (14) ————; (15) ————; (16) ————; (17) ————; (18) ————; (19) ————; (20) ————; (21) ————; (22) ————; (23) ————; (24) ————; (25) ————; (26) ————; (27) ————; (28) ————; (29) ————; (30) ————; (31) ————; (32) ————; (33) ————; (34) ————; (35) ————; (36) ————; (37) ————; (38) ————; (39) ————; (40) ————; (41) ————; (42) ————; (43) ————; (44) ————; (45) ————; (46) ————; (47) ————; (48) ————; (49) ————; (50) ————; (51) ————; (52) ————; (53) ————; (54) ————; (55) ————; (56) ————; (57) ————; (58) ————; (59) ————; (60) ————; (61) ————; (62) ————; (63) ————; (64) ————; (65) ————; (66) ————; (67) ————; (68) ————; (69) ————; (70) ————; (71) ————; (72) ————; (73) ————; (74) ————; (75) ————; (76) ————; (77) ————; (78) ————; (79) ————; (80) ————; (81) ————; (82) ————; (83) ————; (84) ————; (85) ————; (86) ————; (87) ————; (88) ————; (89) ————; (90) ————; (91) ————; (92) ————; (93) ————; (94) ————; (95) ————; (96) ————; (97) ————; (98) ————; (99) ————; (100) ————; (101) ————; (102) ————; (103) ————; (104) ————; (105) ————; (106) ————; (107) ————; (108) ————; (109) ————; (110) ————; (111) ————; (112) ————; (113) ————; (114) ————; (115) ————; (116) ————; (117) ————; (118) ————; (119) ————; (120) ————; (121) ————; (122) ————; (123) ————; (124) ————; (125) ————; (126) ————; (127) ————; (128) ————; (129) ————; (130) ————; (131) ————; (132) ————; (133) ————; (134) ————; (135) ————; (136) ————; (137) ————; (138) ————; (139) ————; (140) ————; (141) ————; (142) ————; (143) ————; (144) ————; (145) ————; (146) ————; (147) ————; (148) ————; (149) ————; (150) ————; (151) ————; (152) ————; (153) ————; (154) ————; (155) ————; (156) ————; (157) ————; (158) ————; (159) ————; (160) ————; (161) ————; (162) ————; (163) ————; (164) ————; (165) ————; (166) ————; (167) ————; (168) ————; (169) ————; (170) ————; (171) ————; (172) ————; (173) ————; (174) ————; (175) ————; (176) ————; (177) ————; (178) ————; (179) ————; (180) ————; (181) ————; (182) ————; (183) ————; (184) ————; (185) ————; (186) ————; (187) ————; (188) ————; (189) ————; (190) ————; (191) ————; (192) ————; (193) ————; (194) ————; (195) ————; (196) ————; (197) ————; (198) ————; (199) ————; (200) ————; (201) ————; (202) ————; (203) ————; (204) ————; (205) ————; (206) ————; (207) ————; (208) ————; (209) ————; (210) ————; (211) ————; (212) ————; (213) ————; (214) ————; (215) ————; (216) ————; (217) ————; (218) ————; (219) ————; (220) ————; (221) ————; (222) ————; (223) ————; (224) ————; (225) ————; (226) ————; (227) ————; (228) ————; (229) ————; (230) ————; (231) ————; (232) ————; (233) ————; (234) ————; (235) ————; (236) ————; (237) ————; (238) ————; (239) ————; (240) ————; (241) ————; (242) ————; (243) ————; (244) ————; (245) ————; (246) ————; (247) ————; (248) ————; (249) ————; (250) ————; (251) ————; (252) ————; (253) ————; (254) ————; (255) ————; (256) ————; (257) ————; (258) ————; (259) ————; (260) ————; (261) ————; (262) ————; (263) ————; (264) ————; (265) ————; (266) ————; (267) ————; (268) ————; (269) ————; (270) ————; (271) ————; (272) ————; (273) ————; (274) ————; (275) ————; (276) ————; (277) ————; (278) ————; (279) ————; (280) ————; (281) ————; (282) ————; (283) ————; (284) ————; (285) ————; (286) ————; (287) ————; (288) ————; (289) ————; (290) ————; (291) ————; (292) ————; (293) ————; (294) ————; (295) ————; (296) ————; (297) ————; (298) ————; (299) ————; (300) ————; (301) ————; (302) ————; (303) ————; (304) ————; (305) ————; (306) ————; (307) ————; (308) ————; (309) ————; (310) ————; (311) ————; (312) ————; (313) ————; (314) ————; (315) ————; (316) ————; (317) ————; (318) ————; (319) ————; (320) ————; (321) ————; (322) ————; (323) ————; (324) ————; (325) ————; (326) ————; (327) ————; (328) ————; (329) ————; (330) ————; (331) ————; (332) ————; (333) ————; (334) ————; (335) ————; (336) ————; (337) ————; (338) ————; (339) ————; (340) ————; (341) ————; (342) ————; (343) ————; (344) ————; (345) ————; (346) ————; (347) ————; (348) ————; (349) ————; (350) ————; (351) ————; (352) ————; (353) ————; (354) ————; (355) ————; (356) ————; (357) ————; (358) ————; (359) ————; (360) ————; (361) ————; (362) ————; (363) ————; (364) ————; (365) ————; (366) ————; (367) ————; (368) ————; (369) ————; (370) ————; (371) ————; (372) ————; (373) ————; (374) ————; (375) ————; (376) ————; (377) ————; (378) ————; (379) ————; (380) ————; (381) ————; (382) ————; (383) ————; (384) ————; (385) ————; (386) ————; (387

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