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# Glg 115 midterm test 2024

GLG * We aren't endorsed by this school 11 * We aren't endorsed by this school We're getting everything ready for you. The page is loading, and you'll be on your way in just a few moments. Thanks for your patience! Gems & Gem Mineral Formation -GLG 111H Homework: Color and Crystal Field Transitions NAME: Lidia Marusic 1) Write the electronic structure of Fe, Fe2+, Fe3+, Ni2+, Cu3+, Mn4+, and Zn2+ in an octahedral crystal field. In the latter use the notation t 2g anSolutions availablePlanetary Science Lab (35 pts) Name: Braden Maher Introduction: Throughout this semester you have learned how geology can be applied to study Earth. You will now apply your knowledge of Earth processes to several planetary bodies in order to learn more abSolutions availableGLG 115 Midterm Review Identify the following as a mineral, an igneous rock, a sedimentary rock, or a metamorphic rock by writing the letter of the appropriate category from the options on the right in the space next to the names on the left. _d_ Marble ASolutions availableIgneous Rocks Lab Read chapter 5 in your textbook (pg 123-138) and answer the following questions. Possible helpful links: https:/www.youtube.com/watch?v=aCnAF1Opt8M https:/openpress.usask.ca/physicalgeology/chapter/7-3-classification-of-igneous-rocks-2/ Solutions availableLab 7: Geologic Time (35 points) All answers for this lab should be in your own words. Answers should be derived from provided lab materials, not the internet unless otherwise directed. If a question does ask you to conduct research, be sure you properly Solutions availableLab 4: Plate Tectonics Plate tectonics are the driving force behind many processes occurring in the Earth. In this lab we will explore the evidence behind plate tectonics, the type of plate tectonic boundaries, and how to tell which processes are driven bSolutions availableA. 1. The white mass is a single mineral grain of milky quartz. How many mineral grains do you see in this sample? 3 List the number of different types of minerals in the sample and give a general description of each type of mineral: - Golden flecks - SmaSolutions availableStudent Copy Name: Section: TA: Topographic Maps Lab All the information you will need to complete the lab has been provided to you through your book and powerpoint. Part 1: Overview of Topographic Maps Use book (chapter 9) and topographic map PowerPoint.Solutions availableName: _ GLG 115L (Practice) Midterm: Minerals, Igneous, Sedimentary, and Metamorphic Rocks, and Geologic Time Part I: Identification (48 points) For each mineral identify its key physical properties and name the mineral. In the cleavage or fracture columnSolutions availableName: Christian Butler Course/Section: GLG115/L 15 Date: 08/30/18 Activity 1.1: A View of Earth from Above This activity requires use of Google Earth on a device that has an active connection to the Internet. You will need to be able to search, zoom in anSolutions availableSarah Kelley GLG 115 Final Exam Study Guide Topographic Maps 1. What is a topographic map? a. A two-dimensional representation of a three-dimensional land surface. 2. What is latitude and longitude? a. Latitude: Horizontal mapping lines that are measured Solutions availableStudy Guide GLG115 Spring 2013 The midterm is worth a total of 150 points, 40 points will be from mineral and rock identifications while the other 110 points will comprise the written portion of the exam. There are a total of 41 questions many of which arSolutions availableBrandon Gomis English Comp 1 "Ground Zero Discussion Questions" Comprehension 1. What does Berne mean when she says that as her eyes adjust to what she is seeing, "'nothing' becomes something much more potent, which is absence" (3)? -When Mrs. Berne referSolutions availableName Homework (graded): Interpreting the Geologic History of an Outcrop Part 1: Complete the rock ages in the chart and answer the questions. You will need to look up the ages of the fossils using a geologic time scale chart. Assume a 50-million-year halfLab - Plate Tectonics & Earthquakes: Part A & B Excel Sheet California Mexico Magnitude Earthquake Earthquakes Greater Than Count per year Magnitude Earthquake Earthquakes Greater Count per Year Than 8 7 6 5 4 0 0.00 4 0.08 30 0.59 345 6.76 8 7 6 5 4 2 0.Water lab • Water resources and water pollution are major societal concerns. This exercise is developed around predicting where groundwater will flow and how to predict where pollutants will migrate. • Step 1 watch the videos in this order: • https:/www.yTopographic Maps Lab Fall 2020 - Answer Sheet Read each question carefully and be sure to answer all questions completely. Make sure that all of your answers are in YOUR OWN WORDS. Part 1: Overview of Topographic Maps Use your book (pgs. 231-250) and the Solutions availableName: Braden Maher Lab 1: Introduction to Minerals All answers must be complete and in your own words. Additional material on minerals may be found in your lab manual on pages 69-96. Properties of Minerals: Minerals are important to you and our planet. ExSolutions availableMetamorphic Rocks Lab Read Ch. 7 of your lab book (pgs. 185-196). Please do not Google your answers. Utilizing your lab book will be of benefit because your answers are more likely to be correct. This lab is to be answered in YOUR OWN WORDS. You will be aSolutions availableGLG 115 Lab: Plate Tectonics & Earthquakes All answers for this lab should be in your own words. Answers should be derived from provided lab materials, not the internet unless otherwise directed. If a question does ask you to conduct research, be sure youSolutions available1. For Carrier, Oklahoma, what is the approximate time of the arrival of the first P-wave? a. 10 seconds b. 15 seconds c. 21 seconds d. 30 seconds 2. For Marlow, Oklahoma, what is the approximate time of the arrival of the first S-wave? a. 19 seconds b. 21) Fossiliferous limestone from two different areas are found to contain similar fossils. What does this say about the relative age of the rocks? That they existed in the same time period meaning they are relatively the same age. 2) If a rock has multipleSolutions available115L Study guide for Fall 2020 Minerals What is a mineral? a solid inorganic substance of natural occurrence Why do minerals have specific physical properties? What are those properties? They have different properties because they are composed of differenSolutions availableModule 5: Sedimentary Rocks Sedimentary rocks contain fossil fuels and other natural resources such as coal, salt, and petroleum Sedimentary rocks can contain fossils Sedimentary rocks are formed by weathering, erosion, deposition, and lithification MechaLab 1: Introduction to Minerals All answers must be complete and in your own words. Additional material on minerals may be found in your lab manual on pages 69-96. Properties of Minerals: Minerals are important to you and our planet. Examining minerals heSolutions availableAtkinson 1 Wes Atkinson GLG 115L Dr. Gerke 14 October 2020 Module 7: Fossil Reading Summary This module/reading focuses on a variety of general and specific information about fossils. A fossil is defined as any remains, impression, or trace of a living thWes Atkinson Dr. Gerke GLG 115L 2 November 2020 Module 8: Rivers Reading Summary Chapter five focused on water. Water is an important asset in everyone's life. We need water to survive. Water serves as an essential life source not only to humans but to plAtkinson 1 Wes Atkinson Professor Gerke GLG 115L 31 August 2020 Relative Geological Time Summary The beginning of our textbook reviews the Scientific Method. The first step of the Scientific Method is finding a subject area that a person is interested andWes Atkinson GLG 115L Dr. Gerke 9 November 2020 Module 9: Earthquake Reading Summary Chapter 13 covered earthquakes. On April 25, 2015, a 7.8 magnitude earthquake hit Nepal. This caused an avalanche on Mt. Everest with thousands of people dead. Since thenVolcanic Hazards Lab You may find the following links and videos helpful. Hazards:http:/www.geo.mtu.edu/volcanoes/hazards/primer/ https:/www.youtube.com/watch?v=BCm6xTZj-vk&t=53s Volcanic eruption styles: https:/geology.com/volcanoes/types-of-volcanic-eruSolutions availableMetamorphic Rocks Lab Read Ch. 7 of your lab book (pgs. 185-196). Please do not Google your answers. Utilizing your lab book will be of benefit because your answers are more likely to be correct. This lab is to be answered in YOUR OWN WORDS. You will be aSolutions availableIgneous Rocks Lab Read chapter 5 in your textbook (pg 123-138) and answer the following questions. Possible helpful links: https:/www.youtube.com/watch?v=aCnAF1Opt8M https:/openpress.usask.ca/physicalgeology/chapter/7-3-classification-of-igneous-rocks-2/ Solutions available1. Investigate the Dominant Events in the Paleozoic, Mesozoic, and Cenozoic. What are the dominant geologic events in North America during the Paleozoic, Mesozoic, and Cenozoic eras, and how do these events relate to plate tectonics? Mesozoic- 252.2 milliSolutions availableExam 1 (each page is 25% of the exam total) Submit as a PDF Name: Eric Hendrix Fill the space provided with single spaced 11-point text. You may use drawings in your answers by making a drawing by hand and taking an image and inserting it. Do not copy andSolutions availableGLG 115 Lab: Plate Tectonics & Earthquakes All answers for this lab should be in your own words. Answers should be derived from provided lab materials, not the internet unless otherwise directed. If a question does ask you to conduct research, be sure youSolutions availableGLG 115L: Sedimentary Rocks Lab Introduction: In this lab, we will delve into formation processes, sediment transport, formation environments, compositions, and textures of sedimentary rocks to be able to identify common sedimentary rocks. Refer to the prSolutions available6.1 1. 2. 3. 4. 5. 6. Conglomerate sedimentary rock Bioclastic, contains calcite Chemical Fined grained, appears to be shale Siltstone has leaf imprints in rock Small grains, matured rock is well rounded 6.2 1. Rockfall deposit close to the source area a.Lab1: Chapter 9 A planimetric map is a flat representation of Earth's surface that shows horizontal (twodimensional) positions of features like streams, landmarks, roads, and political boundaries. Topographic map is similar to a planimetric map but it als15 October 2019 Midterm GLG 115L Midterm Study Guide ● Contour lines ○ What are they? * a line on a map joining points of equal height above or below sea level. ○ Why do they never cross? * there cannot be two points of the same elevation ○ Match contour Solutions available● ● ● ● ● ● ● ● ● Minerals have definite chemical composition 4 ways of forming: Molten rock, living creatures Properties of minerals: Crystal habit, luster, color, hardness, streak, broken surface of material, special properties Rocks made up of differenGLG 115L: Understanding the Earth Midterm Study Guide Use these topics to guide what you study for the GLG115L midterm. Look over the PowerPoint presentations, through your lab manual, and the cart of rocks in the hallway by the lab door as needed. The PoSolutions availableName: Isaac Hope Metamorphic Rocks Homework 1. Please read Ch. 7 on Metamorphic Rocks in the lab manual. 2. After reading the chapter, complete Activity 4.4 (pg. 120) in the lab manual. Be sure to list all the applicable textures of each sample from the wSolutions availableWhat are valence electrons? What is the difference between the total number of electrons and valence electrons? How do you determine the number of valence electrons in an atom? What is a covalent bond? How many electrons are involved? What is the Lewis elGLG 115 Lab Week #3 - Plate Tectonics, Earthquakes and Geophysics EXERCISE 1: This assignment will investigate the rate of earthquakes in different parts of the world. We will use the IRIS Earthquake Browser to view the last ~50 years of earthquakes (fromSolutions availableIsaac Hope Part 1. Activity 6.1 (6 points) A (6 points) Phot o Composition (what it is made of) Texture (the size, shape, and arrangement of its parts) 1 Multiple different rocks and minerals Mix of large and small parts, randomly mixed 2 Multiple differeStudy Guide for Final Exam 1. How can you differentiate between igneous, metamorphic, and sedimentary rocks? The main difference between Igneous, Sedimentary and Metamorphic rocks, is the way that they are formed, and their various textures. Igneous rocksSolutions availableName: Sarah Ade Lab 4: Igneous Rocks/Volcanism I.Minerals Review a. What is the difference between mafic and felsic minerals? Felsic contains 0 to 15% ferromagnesian minerals (light colored), "silica-rich" = high percent of silica-rich minerals, and referSolutions availableHomework Lab 8 Refer to Lab 8 in the manual to complete following questions 1. What evidence is used by geologists to construct the geologic timescale? Geologists use fossils, shells, bones, leaf impressions, and many other prehistoric animals and plants Solutions availableGLG 115 Lab Week #3 - Plate Tectonics, Earthquakes and Geophysics EXERCISE 1: This assignment will investigate the rate of earthquakes in different parts of the world. We will use the IRIS Earthquake Browser to view the last ~50 years of earthquakes (fromSolutions availableGems & Gem Mineral Formation - GLG 111H Name: Lidia Marusic 1. To what chemical class do the following minerals belong? a. CuMnO2—oxides b. Cu—native elements c. (Fe,Mn)(Ta,Nb)2O6—oxides d. PbCO3—carbonates e. LiAlSi2O6—silicates f. (Sr,La)(PO4)2(SiO4)F—sSolutions availableGLG 111H: Homework Gemstones and Minerals in the Karl E. Limper Geology Museum Name: Lidia Marusic Visit the Geology Museum in Rm 126 Shideler Hall. Read through and explore the exhibits on Gemstones and Minerals. Spend some time studying the gems and crySolutions availableESL 125 - Laboratory for VOLCANOES page 1 Spring 2005 - Dr. Srogi Name _ LAB #5 - Volcano Scenarios: Hazard Maps and Communicating Risk (60 points total) Objectives: at the end of this lab, students will be able to: Correctly identify the type of volcanoSolutions availableSedimentary Rocks and Environments: Due 11/15 ONLINE SUBMISSION Review: 1. Weather a basalt using the major mineral components (Si, O, Mg, Fe) and appropriate processes (Hydrolysis, Oxidation, Dissolution): Dissolution Dissolution only takes place in non-Solutions availableQuiz 5 1. Which of the following is the most dangerous to humans? a. Pyroclastic flow 2. A lava flow with a jagged and spiky surface is termed: a. Aa 3. Most calderas form by: a. Summit collapse 4. Flood basalts form as a result of: a. Eruptions of fluid Solutions availableGLG 115L Final Study Guide Conversions Know how to convert between units. (m,s,days,mL,L, etc.) Know how to convert a map scale to real life (How much distance in mi is 1 inch on a 1:24,000 scale map) Minerals What is a mineral? a solid inorganic substancSolutions availableThe Friar Description Friars appearance is not like how a Friar is suppose to dress, he is dressed like a luxurious pope or doctor. As it says in the text his neck was as a lily flower. The Friar is a person who begs on the behalf of the poor, but in the Final Exam Review GLG 115L Spring 2016 Topographic Maps What are lines of latitude and longitude, and what are they based off of? o Latitude at the top (north) and at the bottom (south) o Latitude is measured from 0 degrees at the equator and 90 degrees Solutions availablePlate Tectonics: A theory that proposes that the Earths outer shell consists of individual plates 1) Be able to identify the people who made the greatest discoveries to produce the theory of plate tectonics. German scientist Alfred Wegener noticed that Solutions availableZach Wiese Geology 115L Homework 11 1. How do you create a cone of depression? A cone of depression forms when a well drains or lowers the water table in an aquifer. For example, if a house uses a well for its water source, and they use up a large amount Solutions availableZach Wiese Geology 115L Homework 10 1. True or False: There is geologic evidence that mammals have been the dominant species on Earth for the entirety of Earth history. True. 2. True or False: Radioactive dating can be done because unstable radioactive elSolutions availableZach Wiese Geology 115L Homework 9 1. Whats geologic map? A geologic map is a special-purpose map made to show geological features. Rock units or geologic strata are shown by color or symbols to indicate where they are exposed at the surface. Bedding planSolutions availableTopography Maps Homework 1. What are contour lines? Contour lines are curved or straight lines on a map describing the intersection of a real or hypothetical surface with one or more horizontal planes. The configuration of these contours allows map readerSolutions availableClaire Tully HW for STRUCTURE 1. What's geologic map? Geologic maps record outcrop data using different colors and symbols to represent the locations of different layers or formations of rock and their directions and angles of tilting or other deformationSolutions availableTopography Maps Homework 1. What are contour lines? Contour lines are the distinguishing features of a topographic map. Contour lines show landforms and their relief. They are what make a topographic map different from the more familiar planimetric map, sSolutions availableClaire Tully Homework 2 1. What are some differences between felsic and mafic minerals? (examples?)(2) a. Felsic minerals are light-colored and are silica-rich. Examples of felsic minerals include gray quartz and pale brown muscovite b. Mafic minerals conSolutions availableGLG115L Final Exam Study Guide - these are things you should know Plate Tectonics Continental Drift Hypothesis and who came up with it German scientist Alfred Wegener Hypothesized that all continents were once part of a single supercontinent, Pangea, paSolutions availableGLG 115 Exam 1 Review Definitions: Igneous Rocks Magma -Molten rock in isolated bodies under earths surface Intrusive Igneous Rock -Rock formed by magma slowly pushing through earths surface -Coarse-grained, with visible crystals Extrusive Igneous Rock -RMidterm Study Guide: Minerals, Igneous Rocks, Sedimentary Rocks, Metamorphic Rocks Minerals Define mineral" and "rock" and know the difference between the two! o Mineral: Is naturally occurring Formed by natural processes and synthetic analogs. Is a sSolutions availableGLG 115 Exam Review Part I: Matching (2 pts each, 40 pts) F. a semicircular or amphitheater-shaped H Relief U Contour interval L Gradient W Stereopair N Index fossil M Half-life A Angular unconformity J Disconformity Q Nonconformity K Drumlin D Arte F CirSolutions available`Name: _ GLG 115L (Practice) Midterm: Minerals, Igneous, Sedimentary, and Metamorphic Rocks, and Geologic Time Part I: Identification (48 points) For each mineral identify its key physical properties and name the mineral. In the cleavage or fracture columSolutions availableName:_ Practice Final Exam: GLG 115 Sections 15 and 19 150 points Part I: Matching (2 pts each, 40 pts) H Relief: The elevation change between X Terminal moraine: Ridge-like contour lines on a topographic map. accumulation of glacial till that marks the fSolutions availableGLG 115 Exam Review Part I: Matching (2 pts each, 40 pts) F. a semicircular or amphitheater-shaped bedrock H Relief feature created as glaciers scour back into the mountain. G. In this area, the water table is lowered around a L Gradient well due to grounSolutions availableA piece of cotton cloth is found at a burial site and needs to be dated: a) What isotope should be used for dating the cotton cloth? b) It is found that 16.7% of the parent isotope is remaining. How mCarbon-14 dating 2.582 half-lives 14794.86 years Explanation: Question a A cotton cloth is derived from a plant. This means that is an organic material and therefore, Carbon-14 is the most suitableSolved by verified expertPlease see an attachment for details1. The latitude and longitude of point A are 20° North (N) and 20° West (W) . 2. The latitude and longitude of point B are 10° South (S) and 50° East (E). 3. A fractional scale of 1:100,000Solved by verified expertSummary of Chapter 1 (geologic time) out of: Laboratory Manual for Introductory Geology by Bradley Deline, Ph.D Randa Harris, MS, Karen Tefend, Ph.D Link for free textbook - answers are given below. Explanation: Chapter 1 of the Laboratory Manual for Introductory Geology by Bradley Deline, Randa Harris, and Karen Tefend is titled "Introduction to Physical Geology" andSolved by verified expertyou decide to hike up a tall mountain and you want to know the gradient. elevation at head of mountain is 645 feet and the eleveation at the summit is 8,035 feet. the entire trail is 11.3miles long frThe gradient of the trail is 123.86m/km. Explanation: Gradient is a measurement of the steepness of the land or simply slope. Gradient= R u n R i s e Rise- change in vertical distance Run-Solved by verified expertif a rock weighs 3.1 pounds and it measures 27 inches cubed what is the density in grams/cm cubed3.1 pounds = 1,402 grams 27 inches cubed = 3,387 cm cubed 1,402 grams / 3,387 cm cubed = 0.4154 grams/cm cubed Explanation: Volume = length x width x height In this case, the volume is 27Solved by verified expertCan the plates move more slowly than the top portion of the mantle convecting just below them?Yes. It is possible for the plates to move more slowly than the top portion of the mantle converting just below them. Explanation: According to rheologists and geologists that water in most casesSolved by verified expertTemp = 74 o F Dew Point = 64 o F (Relative) Humidity = 68% How much would temperature need to fall for relative humidity to reach 100%? _____ o F If it fell that much what would happen? It would sThe temperature needs to fall for 10 o F to reach a humidity of 100%. If it falls that much then the air cannot hold any more water vapour so condensation occurs. Explanation: Dew point is theSolved by verified expertMultiple choice 1) Which of the following is NOT thought to have been a factor in triggering the onset of the most recent ice age, approximately 3 million years ago. a) Plate tectonic processes that cc) Changes in ocean circulation patterns between and within the Atlantic and Pacific oceans. Glacial periods, 100,000 years, colder b) changes in Earth's orbital parameters, such as orbit shape andSolved by verified expertMultiple Choice/ Choose one 1) Which of the following materials IS a mineral. - sugar - glass -ice - coal 2) Which of the following statements about phosphorus is FALSE? - Phosphorus is an eBrilliant answers. Explanation: 1) Coal 2)Phosphorus is one of the most abundant elements in Earth's crust. 3) Magnets 4)Dysprosium 5)REE deposits are commonly associated with laterite soils, andSolved by verified expertQuestion:Multiple choice and one word 1) The most important variable that determines the size of sediment being transported, and whether a stream is erosional or depositional, is _____. 2) The sedimHere is the reply. Take a look. Explanation: 1. The velocity of the steam 2. Silt 3. Stream velocity 4. Dissolution 5. a) water that existsSolved by verified expertMultiple choice 1). Which of the following types of seismic wave cause the most damage during large earthquakes? a) Body (P and S) waves b) P waves only c) L waves only d) Surface (L and R) wQuiz one d) Surface (L and R) waves Question two b) A magnitude 7.0 has 100 times the ground motion and over 1000 times the energy release of a magnitude 5.0. Question three b) all of theSolved by verified expertA) Use the ruler tool to determine the distance from the Big Island of Hawaii of the oldest island before the bend. Use this distance and the age of volcanic rocks on that island to calculate an averaA) Use the ruler tool to determine the distance from the Big Island of Hawaii of the oldest island before the bend. The distance =9000 KM Age =42 million years Average PacificSolved by verified expertOn a separate piece of paper or a digram, sketch in landscape orientation a north-facing cross-section along ~10S latitude from Africa westward to the middle of the Pacific Ocean (~130W longitude). As an artificial intelligence, I'm unable to sketch or create graphics. However, I can certainly guide you through the process of how you could complete this task. 1. First, get a piece of paper orSolved by verified expertThe documentary to include a discussion of possible causes of the Cretaceous-Paleogene, K-Pg, (or Cretaceous-Tertiary, K-T, in older literature) mass extinction. 1). Describe two ways in which volThe documentary to include a discussion of possible causes of the Cretaceous-Paleogene, K-Pg, (or Cretaceous-Tertiary, K-T, in older literature) mass extinction. 1). Describe two ways in whichSolved by verified expertCourse Hero, a Learneo, Inc. business