

### Answer Key for Environmental Geology Lab 10

1.

<b>Rock</b>	<b>Minerals</b>	<b>Texture</b>	<b>Other Characteristics</b>
Shale	Clay Minerals	Detrital	Select your own
Sandstone	Mostly quartz	Detrital	Select your own
Limestone	Calcite	Non-Detrital	Select your own
Coal	None - Consist of Organic Material	Non-Detrital	Select your own

2. Any place where plant organic material can accumulate such as swamps and lagoons

3. No because fossil fuels are formed within different types of sedimentary rocks.

4. Oil shale and tar sandstone but with the way prices are going these resources soon will become economic

5.

<b>Rock</b>	<b>Source Rock</b>	<b>Reservoir Rock</b>	<b>Trap Rock</b>
Shale	√		√
Sandstone		√	
Limestone		√	

6. Where the reservoir is deep below the window for oil formation. Depths greater than 4 km.

7. No because temperatures at these depths breakdown hydrocarbon molecules.

8. Because gas has a lower density than oil and will rise to the top of the reservoir.

9. Simple hydrocarbons are gasses and as hydrocarbon molecules become more complex the tendency is to find these compounds as liquids and even solids in the case of extremely complex hydrocarbons.

10. Temperature at 1 km - Temperature at 0 km = Geothermal Gradient  
 $55^{\circ}\text{C} - 28^{\circ}\text{C} = 27^{\circ}\text{C} / \text{km}$

11.

- a. Stratigraphic Trap - Salt
- b. Stratigraphic Trap - Shale
- c. Structural Trap - Anticline
- d. Structural Trap - Fault
- e. Combination Traps - Fault and Stratigraphic (Shale)

# Environmental Geology Lab Manual Answer Key

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**Environmental Geology** Dorothy Merritts, Andrew De Wet, Kirsten Menking, 1998-12-15 Using the earth systems approach Dr Merritts and her colleagues guide readers towards an understanding of Earth's varied environments the whole Earth systems connecting them and the ramifications of natural events and human interaction **Investigations in**

**Environmental Geology** Duncan Foley, Garry D. McKenzie, Russell O. Utgard, 1999 Using a hands on inquiry based problem solving approach throughout this laboratory manual for environmental geology features 27 exercises based on classic and recent case histories and current events topics Reviews basic geology and math necessary for the labs and lists Internet addresses for supplemental material related to each exercise Focuses on geologic systems and human interaction with them e g volcanos earthquakes landslides snow avalanches coastal hazards river floods with examples from throughout the United States Discusses water and soil pollution e g surface water and ground water quality processes and pollution with numerous examples from throughout the United States Illustrates the role that the geosciences play in our life support system e g groundwater overdraft and saltwater intrusion energy types conversions uses and options waste management vs waste deposit and total energy and resource flow within a system Calls for application of basic geological concepts and techniques to regional land use planning Considers future trends and global change For those interested in environmental geology applied geology or environmental science **Introduction to Environmental Geology** Edward A. Keller, 2002 CD ROM

contains Interactive problem solving activities corresponding to issues faced by environmental professionals *The Publishers' Trade List Annual*, 1982 **Environmental Geology Laboratory**, 2003-11-14 This easy to use easy to learn from laboratory manual for Environmental Geology employs an interactive question and answer format that engages the reader at the start of each exercise Taking a developmental approach to learning this manual emphasizes principles over rote memorization The entire manual is written in a clear and inviting style and includes scores of helpful hints to coach students as they tackle problems *Lab Manual for Environmental Geology* Harvey Blatt, 2012-10-15 **Problem Solving in**

**Geology** Sheldon Judson, 2000-02 B Designed give readers instruction and practice with basic geologic field and lab skills this exceptionally affordable yet high quality lab manual workbook features 68 unique and intuitive exercises that covering 19 key geologic topics The exercises are based on the principles of scientific inquiry and challenge readers to think beyond the activity at hand to the larger questions of applied geologic work Problems range from the simple to complex and calculations are based on simple arithmetic **ROCK EVOLUTION** Minerals and Rocks **MAPPING THE EARTH** Topographic Maps Air Photos Geologic Maps Structures and Earth History Seismic Reflections Reveal Subsurface Geology **SURFICIAL PROCESSES AND THE ENVIRONMENT** Landslides Streams Ground Water Glaciation Beaches **PLATE TECTONICS** Earthquakes and Seismic Risk Volcanos and Volcanic Hazards Earthquakes Volcanos and Plate Tectonics Plate Movements **EARTH MATERIALS** Rock forming Minerals Igneous Rocks Sedimentary Rocks Metamorphic Rocks Common Rocks in the

Field For anyone interested in learning geologic field and lab skills      *Laboratory Manual for Physical and Environmental Geology - EBook* Benjamin P. Hooks,1753      Physical Geology Lab Manual and Note Book John Tomikel,1966      The Secrets of College Success Lynn F. Jacobs,Jeremy S. Hyman,2019-03-11 Are you among the 22 million students now enrolled in college Or a high school student thinking of joining them shortly Or perhaps a parent of a college bound junior or senior Then this book is just for you Written by college professors and successfully used by tens of thousands of students The Secrets of College Success combines easy to use tips techniques and strategies with insider information that few professors are willing to reveal The over 800 tips in this book will show you how to pick courses and choose a major manage your time and develop college level study skills get good grades and manage the core requirements get motivated and avoid stress interact effectively with the professor or TA prepare for a productive and lucrative career New to this third edition are high value tips about undergraduate and collaborative research summer internships staying safer on campus diversity and inclusion disabilities and accommodations with special tips for international students at US colleges Winner of the 2010 USA Book News Award for best book in the college category The Secrets of College Success makes a wonderful back to college or high school graduation gift or a smart investment in your own college success      **Forthcoming Books** Rose Army,2003-12

**Environmental Geology Lab Manual** Frank T. Caruccio,1975      *Ecol Environmental Conservation Library of Minnesota*,1976      **New Era in Education** ,1998      El-Hi Textbooks in Print ,1984      **El-Hi Textbooks & Serials in Print, 2000** ,2000      Remote Sensing Floyd F. Sabins, Jr.,James M. Ellis,2020-04-01 Remote sensing has undergone profound changes over the past two decades as GPS GIS and sensor advances have significantly expanded the user community and availability of images New tools such as automation cloud based services drones and artificial intelligence continue to expand and enhance the discipline Along with comprehensive coverage and clarity Sabins and Ellis establish a solid foundation for the insightful use of remote sensing with an emphasis on principles and a focus on sensor technology and image acquisition The Fourth Edition presents a valuable discussion of the growing and permeating use of technologies such as drones and manned aircraft imaging DEMs and lidar The authors explain the scientific and societal impacts of remote sensing review digital image processing and GIS provide case histories from areas around the globe and describe practical applications of remote sensing to the environment renewable and nonrenewable resources land use land cover natural hazards and climate change Remote Sensing Digital Database includes 27 examples of satellite and airborne imagery that can be used to jumpstart labs and class projects The database includes descriptions georeferenced images DEMs maps and metadata Users can display process and interpret images with open source and commercial image processing and GIS software Flexible revealing and instructive the Digital Image Processing Lab Manual provides 12 step by step exercises on the following topics an introduction to ENVI Landsat multispectral processing image processing band ratios and principal components georeferencing DEMs and lidar IHS and image sharpening unsupervised classification supervised classification

hyperspectral and change detection and radar Introductory and instructional videos describe and guide users on ways to access and utilize the Remote Sensing Digital Database and the Digital Image Processing Lab Manual Answer Keys are available for instructors for questions in the text as well as the Digital Image Processing Lab Manual *Journal of Geoscience Education* ,1997      **El-Hi Textbooks & Serials in Print, 2003** ,2003      **Remote Sensing in Canada** ,1990

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