GeoScience Videos Quiz for Porosity and Permeability

1. Most groundwater is present in underground lakes and cave systems.
   a) True   b) False

2. What is the name given to the void spaces between grains of sediment?
   a) Permeables   c) Whorls
   b) Pores   d) Vesicles

3. What is the term that represents the percentage of sediment that is made up of spaces between the grains?
   a) Porosity   b) Aquifer   c) Water table   d) Permeability

4. A beaker is filled with 500 ml of coarse well-rounded sand. Water is poured into the beaker until it reaches the top of the sand. Predict which of the following values best predicts approximately how much water was added to the beaker.
   a) 60 ml   b) 120 ml   c) 180 ml   d) 240 ml

5. What is the source for most groundwater resources in the US?
   a) Limestone cave systems   b) Fractured rocks   c) Sand and gravel

6. Which earth material has the greatest permeability?
   a) Clay   b) Sand   c) Basalt   d) Gravel

7. What is groundwater?
   a) Water in contact with the ground surface.
   b) Water on or below the ground surface.
   c) Water below the ground surface.

8. How would the porosity and permeability values be changed as sand is converted to sandstone?
   a) Porosity would increase, permeability would decrease
   b) Porosity would decrease, permeability would increase
   c) Both would increase
   d) Both would decrease

Answer Key: 1. b; 2. b; 3. a; 4. c; 5. a; 6. a; 7. c; 8. d