

### Question 1

What evidence did the Hubble Space Telescope provide to support the nebular theory of solar system formation?

- A) pictures of other spinning stars
- B) proof of the expansion of our solar system
- C) proof of the spinning of our solar system
- D) pictures of other stars with dust and gas

Answer: <https://biology-forums.com/index.php?topic=418204>

### Question 2

A quartz sandstone and an arkose were both produce from the weathering of a granite. Which rock's sediments experienced a greater degree of weathering than the other?

- A) The sediments in the quartz sandstone experienced a greater degree of weathering than the sediments in the arkose.
- B) The sediments in the arkose experienced a greater degree of weathering than the sediments in the quartz sandstone.
- C) There is not enough information to answer this question.
- D) The sediments in the arkose and the quartz sandstone both experienced the same degree of weathering.

Answer: <https://biology-forums.com/index.php?topic=417440>

### Question 3

The soils in the central part of the United States used for growing wheat, corn and soybeans are classified as \_\_\_\_\_ soils.

- A) grassland
- B) desert
- C) forest
- D) rainforest
- E) wetland

Answer: <https://biology-forums.com/index.php?topic=418125>

### Question 4

What might be present to cause a reddish color in a soil horizon?

- A) aluminum and iron oxides
- B) bedrock
- C) organic materials
- D) clay minerals

Answer: <https://biology-forums.com/index.php?topic=418045>

### Question 5

\_\_\_\_\_ increase as the roughness between two objects in contact with one another increases.

- A) Cohesion
- B) Flow
- C) Friction
- D) Creep

Answer: <https://biology-forums.com/index.php?topic=418285>

### Question 6

Which is not a factor that determines if bond strength will increase?

- A) close distance of atoms
- B) greater charge of particles
- C) larger nuclei in atoms
- D) larger size of molecules

Answer: <https://biology-forums.com/index.php?topic=416890>

### Question 7

True or False: All past changes in sea level were due to the growth and demise of glaciers.

Answer: <https://biology-forums.com/index.php?topic=417939>

### Question 8

What evidence would lead geologists to conclude that granite underlying sedimentary rock is younger than the sedimentary rock?

- A) contact metamorphism between the granite and the deepest sedimentary bedding  
B) tilting of the sedimentary bedding  
C) pebbles of the granite included in the bedding of the sedimentary rock  
D) fragments of sedimentary rock included in the granite

Answer: <https://biology-forums.com/index.php?topic=417768>

### Question 9

The \_\_\_\_\_ is comprised of mostly metamorphic and igneous rocks.

- A) mantle  
B) core (inner)  
C) crust (continental)  
D) core (outer)  
E) crust (oceanic)

Answer: <https://biology-forums.com/index.php?topic=418187>

### Question 10

The surface that marks the top of the ground water is called the

- A) unsaturated zone.  
B) water layer.  
C) water table.  
D) saturated zone.

Answer: <https://biology-forums.com/index.php?topic=417213>

### Question 11

Which of the following events does not commonly occur at a delta?

- A) Erosion deepens the delta into a bay.  
B) Sea level rises higher than sedimentation builds all parts of the delta.  
C) Sediment compacts over time.  
D) Sediment isostatically depresses the crust.

Answer: <https://biology-forums.com/index.php?topic=417706>

### Question 12

Which of the silicate structures would you expect to be the most stable and resistant to weathering at Earth's surface? Why?

Answer: <https://biology-forums.com/index.php?topic=417076>

### Question 13

When a shale metamorphoses into a slate why do some slates contain muscovite and some slates contain chlorite?

- A) The chlorite slates form at different temperatures and pressures than the muscovite slates.  
B) The chlorite slates form at different pressures than the muscovite slates.  
C) The chlorite slates have a different composition than the muscovite slates.  
D) The chlorite slates form at different temperatures than the muscovite slates.

Answer: <https://biology-forums.com/index.php?topic=417728>

### Question 14

How might have early Earth lost much of its water?

- A) It was blasted off the Earth and vaporized as a result of enormous collisions.  
B) It dissolved into the core rocks.  
C) It vaporized through natural water cycle processes and escaped Earth's gravity, which was less than it is now.  
D) It was blasted off the Earth by volcanic eruptions.

Answer: <https://biology-forums.com/index.php?topic=418272>

### Question 15

The process that converts sediment into rock starts off with

- A) metamorphism.  
B) cementation.  
C) crystallization.  
D) compaction.

Answer: <https://biology-forums.com/index.php?topic=417389>

### Question 16

If the following sand grain minerals were mixed together, which one would get deposited on a beach most often because of its density?

- A) calcite
- B) quartz
- C) feldspar
- D) basalt

Answer: <https://biology-forums.com/index.php?topic=417615>

### Question 17

How much of the water on Earth do scientists think was delivered by comets?

- A) all of it
- B) none
- C) a minor amount
- D) a major amount

Answer: <https://biology-forums.com/index.php?topic=418278>

### Question 18

The presence of sea shells on beaches indicates that

- A) longshore currents carry sediment off the end of a headland.
- B) waves erode sediment from the seafloor.
- C) waves erode some beach sediment from shoreline rock and regolith.
- D) streams deliver large volumes of sediment to the ocean.

Answer: <https://biology-forums.com/index.php?topic=417786>

### Question 19

Choose the option that correctly lists the thickness of Earth's crust in two regions.

- A) oceanic: 25 km; continental: 7 km
- B) oceanic: 25-50 km; continental: 25-50 km
- C) oceanic: 7 km; continental: 25-50 km
- D) oceanic: 10-25 km; continental: 25-50 km

Answer: <https://biology-forums.com/index.php?topic=418004>

### Question 20

A layer of impermeable material, such as clay, that prevents mixing of the ground water in the aquifers above and below it is called a \_\_\_\_\_ layer.

- A) confining
- B) blocking
- C) constraining
- D) restraining

Answer: <https://biology-forums.com/index.php?topic=417258>