

Create 15 Multiple Choice Questions with one correct answer on Structural Geology

1. What process is thought to be responsible for most intrusions?

- A. Erosion
- B. Deposition
- C. Magmatism
- D. Impact

Answer: C. Magmatism

2. Foliations in a shear zone form in what direction?

- A. Parallel to the regional stress
- B. Perpendicular to the regional stress
- C. At a 45 degree angle to the regional stress
- D. At a random angle to the regional stress

Answer: B. Perpendicular to the regional stress

3. When a rock is subjected to a compressive force, what happens?

- A. The rock will expand
- B. The rock will fracture
- C. The rock will shorten in the direction of the force
- D. The rock will stretch in the direction of the force

Answer: C. The rock will shorten in the direction of the force

4. What type of fault is associated with the creation of a horst and graben?

- A. Reverse fault
- B. Thrust fault
- C. Normal fault
- D. Strike slip fault

Answer: C. Normal fault

5. What term is used to describe a deformed rock that is composed of roughly parallel layers?

- A. Schist
- B. Gneiss
- C. Foliation

D. Texture

Answer: B. Gneiss

6. What structural feature forms as rocks bend, break, and catalyze the formation of new structures?

- A. Folds
- B. Unconformities
- C. Faults
- D. Joints

Answer: A. Folds

7. Which of the following is an example of a strike-slip fault?

- A. San Andreas fault
- B. New Madrid fault
- C. Wasatch fault
- D. The Great Glen fault

Answer: A. San Andreas fault

8. What is the term for complex strain patterns that appear on extensional or shear surfaces?

- A. Mylonite
- B. Ductile
- C. Foliation
- D. Flattening

Answer: A. Mylonite

9. What type of metamorphism usually operates near a subduction zone?

- A. Regional metamorphism
- B. Cataclastic metamorphism
- C. Contact metamorphism
- D. Hydrous metamorphism

Answer: D. Hydrous metamorphism

10. What type of rock is created when basalt is impacted by regional metamorphism?

- A. Slate
- B. Schist
- C. Eclogite
- D. Marble

Answer: C. Eclogite

11. What term describes a section of rock that has been moved along a fault and has little to no deformation?

- A. Transpression
- B. Displacement
- C. Brisance
- D. Drag

Answer: B. Displacement

12. What unit is the standard for measuring stresses?

- A. Knots
- B. Inches
- C. Megapascals
- D. Miles

Answer: C. Megapascals

13. What phenomenon occurs when a person is standing in a valley, but cannot look out over a mountain peak?

- A. Microclimate
- B. Topographic effect
- C. Inversion
- D. Refraction

Answer: B. Topographic effect

14. What term describes the tectonic motion of one plate being forced under another?

- A. Strike-slip
- B. Transform
- C. Normal fault
- D. Subduction

Answer: D. Subduction

15. What type of rock is characterized by its foliation, or layers of minerals?

- A. Schist
- B. Gneiss
- C. Marble
- D. Granite

Answer: B. Gneiss