Introduction to Environmental Geology 5th Edition KELLER Test Bank

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Introduction to Environmental Geology, 5e (Keller) Chapter 2 Internal Structure of Earth and Plate Tectonics

2.1 Multiple-Choice Questions

- 1) What is the principal difference between the inner core and outer core?
- A) The inner core consists mainly of iron and nickel, while the outer core consists mainly of silicate minerals.
- B) The inner core consists mainly of silicate minerals, while the outer core consists mainly of iron and nickel.
- C) The inner core is solid while the outer core is liquid.
- D) The inner core is liquid while the outer core is solid.

Answer: D

Diff: 2 Page Ref: 32 Section Number: 2.1

Bloom's Taxonomy: Understanding

- 2) The Mohorovicic discontinuity represents
- A) the boundary between inner and outer cores
- B) the boundary between mantle and crust
- C) the boundary between lithosphere and hydrosphere
- D) the boundary between outer core and mantle

Answer: B

Diff: 2 Page Ref: 34 Section Number: 2.1

Bloom's Taxonomy: Remembering

- 3) How does the lithosphere differ from the asthenosphere?
- A) The lithosphere is stronger than the asthenosphere.
- B) The asthenosphere is stronger than the lithosphere.
- C) The asthenosphere is part of the core, while the lithosphere is part of the mantle.
- D) The asthenosphere is less dense than the lithosphere.

Answer: A

Diff: 3 Page Ref: 34 Section Number: 2.1

Bloom's Taxonomy: Understanding

- 4) Which type of earthquake wave moves fastest?
- A) P-wave
- B) S-wave
- C) L-wave
- D) R-wave

Answer: A

Diff: 1 Page Ref: 35 Section Number: 2.2

Bloom's Taxonomy: Remembering

- 5) How do seismologists know the outer core is liquid?
- A) P-waves are refracted upon arrival in the outer core
- B) S-waves are absorbed upon arrival in the outer core
- C) both S-waves and P-waves speed up in the outer core
- D) both S-waves and P-waves slow down in the outer core

Answer: B

Diff: 2 Page Ref: 37 Section Number: 2.2

Bloom's Taxonomy: Understanding

- 6) Why was Alfred Wegener's hypothesis of continental drift not taken seriously by most geologists?
- A) his evidence for former joining of the continents was faulty
- B) because it was and is known that continents do not move
- C) his mechanism for movement of the continents was faulty
- D) he was not a well-respected scientist

Answer: C

Diff: 2 Page Ref: 38 Section Number: 2.3

Bloom's Taxonomy: Understanding

- 7) How did seafloor spreading revive Alfred Wegener's ideas about continental drift?
- A) Sea floor spreading relied on new fossil evidence documenting the former joining of the continents.
- B) Sea floor spreading provided an explanation for the consumption of oceanic crust at plate boundaries.
- C) The topography of the ocean floor demonstrated that mountain ranges on either side of the Atlantic Ocean were formerly joined.
- D) Sea floor spreading prevented a viable mechanism for moving the continents.

Answer: D

Diff: 3 Page Ref: 38 Section Number: 2.3

Bloom's Taxonomy: Understanding

- 8) At convergent plate boundaries
- A) the plate of higher density subducts into the mantle
- B) the plate of lower density subducts into the mantle
- C) new oceanic crust is created
- D) magnetic stripes are generated in oceanic rocks

Answer: B

Diff: 1 Page Ref: 41 Section Number: 2.3

Bloom's Taxonomy: Understanding

- 9) Transform plate boundaries are marked by
- A) volcanic island arcs
- B) consumption of oceanic crust
- C) creation of oceanic crust
- D) two plates sliding relative to one another

Answer: D

Diff: 2 Page Ref: 44 Section Number: 2.3

Bloom's Taxonomy: Understanding

- 10) How do magnetic stripes on the ocean floor serve as evidence for seafloor spreading?
- A) Their symmetry on either side of the mid-ocean ridge shows that new crust is created, then split.
- B) Their patterns show that the Earth's magnetic field reverses every few hundred years, on average.
- C) They show that island arc volcanism creates new oceanic crust at the mid-ocean ridges.
- D) Their symmetry on either side of mid-ocean ridges shows that transform boundaries are sliding boundaries.

Answer: A

Diff: 3 Page Ref: 47 Section Number: 2.4

Bloom's Taxonomy: Understanding

- 11) Hot spots are recorded by
- A) extensive earthquake hazards
- B) mantle rock exposed at the Earth's surface
- C) rock from the outer mantle included in volcanic rocks
- D) a sequence of volcanic centers younging toward the hot spot

Answer: A

Diff: 3 Page Ref: 49 Section Number: 2.4

Bloom's Taxonomy: Applying

- 12) The process of isostasy is responsible for
- A) moving plates apart at a divergent margin
- B) creating volcanoes at a hot spot
- C) causing rock uplift in mountain ranges in response to erosion
- D) causing compressive stresses at convergent boundaries

Answer: C

Diff: 3 Page Ref: 42 Section Number: 2.3

Bloom's Taxonomy: Understanding

- 13) Tectonic plates move about as fast as
- A) a car moves on a city street
- B) fingernails grow
- C) a swallow flies
- D) a tortoise walks

Answer: B

Diff: 1 Page Ref: 45 Section Number: 2.3

Bloom's Taxonomy: Remembering

- 14) When did the supercontinent Pangaea start breaking apart?
- A) 4.6 billion years ago
- B) 560 million years ago
- C) 180 million years ago
- D) 65 million years ago

Answer: C

Diff: 2 Page Ref: 50 Section Number: 2.5

Bloom's Taxonomy: Remembering

- 15) What driving force of plate movement is likely dominant?
- A) ridge push
- B) slab pull
- C) mountain rise
- D) valley fall

Answer: B

Diff: 1 Page Ref: 56 Section Number: 2.6

Bloom's Taxonomy: Understanding

2.2 True/False Questions

1) The rocks of the core are more dense than the rocks of the mantle.

Answer: TRUE

Diff: 1 Page Ref: 33 Section Number: 2.1

Bloom's Taxonomy: Remembering

2) The asthenosphere is stronger than the lithosphere.

Answer: FALSE Diff: 2 Page Ref: 34 Section Number: 2.1

Bloom's Taxonomy: Remembering

3) S-waves accelerate as they enter the outer core.

Answer: FALSE Diff: 2 Page Ref: 35 Section Number: 2.2

Bloom's Taxonomy: Understanding

4) Alfred Wegener proposed the idea of sea floor spreading.

Answer: FALSE
Diff: 1 Page Ref: 38
Section Number: 2.3

Bloom's Taxonomy: Understanding

5) Crust is consumed at transform boundaries.

Answer: FALSE Diff: 2 Page Ref: 44 Section Number: 2.3

Bloom's Taxonomy: Remembering

6) A submarine trench is associated with a convergent boundary.

Answer: TRUE

Diff: 1 Page Ref: 44 Section Number: 2.3

Bloom's Taxonomy: Remembering

7) The Earth's magnetic field reverses in a regular pattern every few hundred thousand years.

Answer: FALSE Diff: 2 Page Ref: 47 Section Number: 2.3

Bloom's Taxonomy: Remembering

8) The concept of seafloor spreading was supported by magnetic polarity stripes on the ocean

floor.

Answer: TRUE

Diff: 1 Page Ref: 48 Section Number: 2.4

Bloom's Taxonomy: Understanding

9) The Hawaiian Islands are a volcanic arc atop an oceanic subduction zone.

Answer: FALSE Diff: 2 Page Ref: 49 Section Number: 2.4

Bloom's Taxonomy: Understanding

Answer: TRUE Diff: 1 Page Ref: 57 Section Number: 2.7 Bloom's Taxonomy: Understanding 11) New oceanic lithosphere is generated at mid-ocean ridges. Answer: TRUE Diff: 1 Page Ref: 46 Section Number: 2.3 Bloom's Taxonomy: Remembering 12) Transform boundaries do not generate earthquakes. Answer: FALSE Diff: 1 Page Ref: 48 Section Number: 2.3 Bloom's Taxonomy: Remembering 13) Deep (>200 km) earthquakes can only be found at a convergent boundary. Answer: TRUE Diff: 1 Page Ref: 48 Section Number: 2.3 Bloom's Taxonomy: Understanding 14) Only a few transform boundaries (<10) mark the Earth's tectonic plates. Answer: FALSE Diff: 1 Page Ref: 48 Section Number: 2.3 Bloom's Taxonomy: Understanding 2.3 Short Answer Questions 1) The rocks of the core consist mostly of _____. Answer: iron Diff: 1 Page Ref: 32 Section Number: 2.1 Bloom's Taxonomy: Remembering 2) The _____ separates the mantle and the crust. Answer: Moho Diff: 2 Page Ref: 34 Section Number: 2.1 Bloom's Taxonomy: Remembering

10) Plate tectonic processes can affect climate.

3) A change in the direction of wave travel at the core-mantle boundary is called
Answer: refraction
Diff: 2 Page Ref: 35
Section Number: 2.2
Bloom's Taxonomy: Understanding
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4)waves pass through the outer core.
Answer: P
Diff: 2 Page Ref: 37
Section Number: 2.2
Bloom's Taxonomy: Understanding
bloom's Taxonomy. Understanding
5) Convergence of plates can cause forces that build mountain ranges.
Answer: compressive
Diff: 2 Page Ref: 41
Section Number: 2.3
Bloom's Taxonomy: Remembering
6) can cause uplift in a mountain range through isostatic compensation.
Answer: erosion
Diff: 3 Page Ref: 42
Section Number: 2.3
Bloom's Taxonomy: Applying
7) A(n) is a location where three plates border one another.
Answer: triple junction
Diff: 2 Page Ref: 44
Section Number: 2.3
Bloom's Taxonomy: Remembering
Bloom's Taxonomy. Remembering
8) At the Curie point, iron-bearing minerals orient themselves parallel to the
Answer: magnetic field
Diff: 2 Page Ref: 47
Section Number: 2.4
Bloom's Taxonomy: Understanding
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9) The volcano called is the youngest of the Hawaiian volcanoes.
Answer: Loihi
Diff: 2 Page Ref: 50
Section Number: 2.4
Bloom's Taxonomy: Remembering
Bloom's Taxonomy. Remembering
10) The supercontinent Pangaea consisted of Laurasia and
Answer: Gondwana
Diff: 2 Page Ref: 52
Section Number: 2.5
Bloom's Taxonomy: Remembering

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11) Yellowstone National Park lies atop a(n)
Answer: continental hot spot
Diff: 2 Page Ref: 55
Section Number: 2.4
Bloom's Taxonomy: Understanding
12) The Cascade Mountains are part of a(n) convergent boundary.
Answer: ocean-continent
Diff: 2 Page Ref: 55
Section Number: 2.3
Bloom's Taxonomy: Understanding
13) The San Andreas Fault is a(n) boundary. Answer: transform
Diff: 2 Page Ref: 55
Section Number: 2.3
Bloom's Taxonomy: Remembering