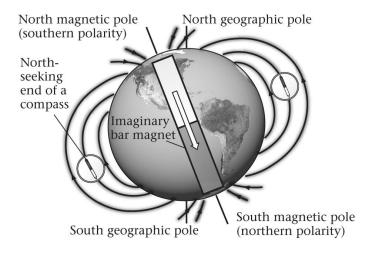
Full Download: http://alibabadownload.com/product/earth-portrait-of-a-planet-5th-edition-marshak-test-bank/

## **CHAPTER 2: Journey to the Center of the Earth**

## MULTIPLE CHOICE

1. The shape of Earth's magnetic field is approximately that of a \_\_\_\_\_\_.



- a. monopole
- b. dipole (such as that produced by a bar magnet)
- c. torus, a donut-shaped ring parallel to Earth's equator

ANS: B DIF: Easy REF: 2.2 TOP: I.B

MSC: Factual

- 2. Presently, Earth's atmosphere is dominated by which two gases?
  - a. hydrogen and oxygen c. nitrogen and oxygen
  - b. carbon dioxide and methane d. nitrous oxide and sulfur dioxide

ANS: C DIF: Easy REF: 2.2 TOP: I.C

MSC: Applied

- 3. If one were to ride a hot air balloon up into the atmosphere, one would experience the concentration of gases
  - a. becoming denser
  - b. becoming less dense
  - c. remaining the same
  - d. increasing for the first 10 km, then starts to decline

ANS: B DIF: Easy REF: 2.2 TOP: II.C

MSC: Applied

4. If one were to see a comet passing by Earth, it is likely that this comet originated from

a. the asteroid beltb. the Kuiper beltc. the heliosphered. interplanetary space

ANS: B DIF: Easy REF: 2.2 TOP: I.A.iii

MSC: Applied

5. The region of space that contains the material of our Solar System (shown below) is termed the



<ul><li>a. lithosphere</li><li>b. heliosphere</li></ul>				cryosphere Oort cloud		
ANS: B MSC: Factual	DIF:	Easy	REF:	2.2	TOP:	I.A.ii

- 6. Earth's surface is protected from solar wind and cosmic radiation by \_\_\_\_\_\_.
  - a. Earth's gravitational field
  - b. Earth's magnetic field
  - c. a large, metallic shield launched into orbit by NASA in the 1960s
  - d. a powerful stream of ions emitted by the Sun

ANS: B DIF: Medium REF: 2.2 TOP: I.B

MSC: Applied

7. Leftovers from the protoplanetery disk that formed our Solar System after the Big Bang can be found where?

a. Heliosphere c. Kuiper belt

b. Oort cloud d. Interplanetary space

ANS: B DIF: Medium REF: 2.2 TOP: I.A.i

MSC: Applied

- 8. As seismic (earthquake-generated) waves travel downward and reach the Moho, they \_\_\_\_\_\_.
  - a. speed up
  - b. slow down
  - c. continue at the same velocity
  - d. are all reflected directly back toward the surface

ANS: A DIF: Medium REF: 2.2 TOP: III.D.i.c

MSC: Factual

9. An aurora (shown below) is produced when \_\_\_\_\_.



- a. solar wind particles are directed toward the poles and excite atmospheric gases
- b. swamp gases rise upward from the arctic tundra
- c. radiation in the Van Allen belts can be seen on a clear, cold night
- d. lightning travels from cloud to cloud rather than cloud to ground

ANS: A DIF: Medium REF: 2.2 TOP: I.B

MSC: Applied

10. Which of the following is NOT true about comets and asteroids?

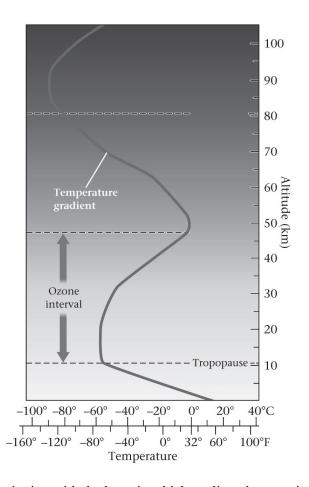


a. Both orbit the sun
b. Both are planetesimals
c. Both are numerous in our Solar System
d. Both are composed of rock and ice

ANS: D DIF: Medium REF: 2.2 TOP: I.A.iv

MSC: Applied

11. The atmosphere can be divided into several distinct layers.



Beginning with the layer in which we live, they are, in order:

- a. stratosphere, troposphere, mesosphere, thermosphere
- b. troposphere, stratosphere, thermosphere, mesosphere
- c. troposphere, stratosphere, mesosphere, thermosphere
- d. stratosphere, troposphere, thermosphere, mesosphere

ANS: C

ANS: B

MSC: Factual

DIF: Difficult

	MSC: Factual						
12.	Substances that can a. glasses b. melts	be trans	formed to a gas		ively low temp volatiles mineraloids	peratures are termed	
	ANS: C MSC: Factual	DIF:	Easy	REF:	2.3	TOP: II.C.viii	
13.	Most continental top a. sea level and 1 k b. sea level and 1 k	m belov	v sea level	c.	altitude betwee 2 to 5 km abo 3 to 6 km abo	ve sea level	

REF: 2.3

REF: 2.2

TOP: I.C

TOP: II.A

- 14. Hydrocarbons, such as petroleum and natural gas, are classified as \_\_\_\_\_
- +. Hydrocarbons, such as petroleum and natural gas, are classified as
  - a. minerals c. organic materials
  - b. fluid rocks d. alloys

DIF: Easy

	ANS: C MSC: Applied	DIF:	Easy	REF:	2.3	TOP:	II.C.1	
15.	The most common ra. silicates b. carbonates	ninerals	within Earth	c.	oxides hydroxides			
	ANS: A MSC: Factual	DIF:	Easy	REF:	2.3	TOP:	II.C	
16.	Hot, liquid rock ben a. lava b. magma	eath the	surface of th	c.	termed volatiles brimstone			
	ANS: B MSC: Factual	DIF:	Easy	REF:	2.3	TOP:	II.C.vii	
17.	In order to be define a. be solid b. be naturally occ		nineral, a sub	c.		arranged	in an orderly pattern correct.	
	ANS: D MSC: Factual	DIF:	Easy	REF:	2.3	TOP:	II.C.ii	
18.	Topographically, mo a. ocean trenches ( b. ocean plains (2.: c. submarine mour	5–12 kr 5–4.5 kr	n below sea l n below sea l	evel) level)		·		
	ANS: B MSC: Applied	DIF:	Medium	REF:	2.3	TOP:	II.B	
19.	Which of the follow a. lakes and rivers b. surficial freshwa c. a layer of hydro d. the oceans, but it	only ater, the gen gas	oceans, grou in the outer r	ndwater, a	and atmosphe	ric water		
	ANS: B MSC: Applied	DIF:	Medium	REF:	2.3	TOP:	II.B	
20.	In the whole Earth, the four most common elements are oxygen, silicon, magnesium, and							
	a. copper b. lead				iron zinc			
	ANS: C MSC: Factual	DIF:	Medium	REF:	2.3	TOP:	II.C	
21.	If you were measuring the elevation of a mountain, you would be measuring variation in, whereas if you were doing the same on a mid-ocean ridge, you would be measuring							
	variation ina. bathymetry; topob. bathymetry; isos	ography			topography;	-		
	ANS: D	DIF:	Medium	REF:	2.3	TOP:	II.A   II.B	

	MSC: Applied						
22.	Glass is different fro  a. is not naturally of  b. is not solid  c. does not have at  d. All of the above	occurrin	g anged in an ord				
	ANS: C MSC: Applied	DIF:	Medium	REF:	2.3	TOP:	II.C.iii
23.	Which of the follows a. sand b. ground-up seash		OT an example	c.	iment? cobbles on a None of the a		re correct.
	ANS: D MSC: Applied	DIF:	Medium	REF:	2.3	TOP:	II.C.v
24.	A mixture of copper a. a metal b. an alloy	and tin	would be calle	c.	a melt a volatile		
	ANS: B MSC: Applied	DIF:	Medium	REF:	2.3	TOP:	II.C.vi
25.	A silica-rich igneous	rock th	at has coarse c	rystals a	and which mak	es up m	nuch of the continental crust is
	<ul><li>a. peridotite</li><li>b. granite</li></ul>				gabbro basalt		
	ANS: B MSC: Applied	DIF:	Difficult	REF:	2.3	TOP:	II.C.iv
26.	A fracture in the crue a. fold b. fault	st, wher	e rocks slide pa	c.	another, is term flying layer frictional disc		
	ANS: B MSC: Factual	DIF:	Easy	REF:	2.4	TOP:	III.B
27.	Earth's geothermal g a. increasing altitude b. increasing depth c. traversing from d d. traversing down	de in the at ocea either pe	e atmosphere n trenches ole toward the o	equator	ure change inc	urred by	<i>.</i>
	ANS: D MSC: Factual	DIF:	Easy	REF:	2.4	TOP:	III.C
28.	During a journey to a. and pressure bot b. and pressure bot c. increasing, but p d. remaining remark	h increa h decrea ressure	asing asing staying nearly	the sam	ne	e tempe	rature
	ANS: A	DIF:	Easy	REF:	2.4	TOP:	III.C

MSC: Applied

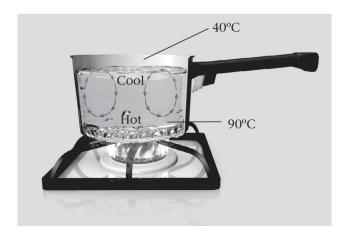
29. People have speculated about Earth's interior since ancient times. The astronomer Nevil Maskelyne estimated Earth's \_\_\_\_\_ in 1776, whereas the author Jules Verne described the interior of the Earth as a series of interconnected \_\_\_\_\_ in 1864 and the physicist Emil Weichert determined that Earth's interior must contain \_\_\_\_\_ in 1896.

a. circumference; dungeons; rocks
b. weight; caverns; metal
c. weight; dungeons; rocks
d. mass; caverns; metal

ANS: D DIF: Difficult REF: 2.4 TOP: III.A

MSC: Factual

30. Heat transfer that occurs through the movement of a fluid, driven by temperature differences among various points within the fluid, is termed \_\_\_\_\_\_.

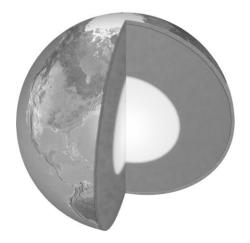


a. radiationb. conductionc. convectiond. adhesion

ANS: C DIF: Easy REF: 2.5 TOP: III.F.iii

MSC: Factual

31. The densest layer of Earth is the \_\_\_\_\_.



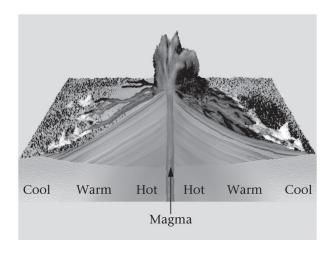
a. crustb. mantlec. outer cored. inner core

ANS: D DIF: Easy REF: 2.5 TOP: III.D.iii

MSC: Factual

32.	32. On average, continental crust is approximately as oceanic					c crust.		
	Sept.							
	<ul><li>a. equally thick</li><li>b. half as thick</li></ul>			c. d.	five times as 20 times as the			
	ANS: C MSC: Applied	DIF:	Easy	REF:	2.5	TOP:	III.D.i.b	
33.	The thickness of the a. 100 to 500 m b. 1 to 10 km	Earth's	crust varies fro	c.	001			
	ANS: D MSC: Factual	DIF:	Easy	REF:	2.5	TOP:	III.D.i	
34.	Of the three primary a. crust b. mantle c. core	chemic	al layers of the	Earth (	crust, mantle, c	core), w	hich is the thickest layer?	
	ANS: C MSC: Factual	DIF:	Easy	REF:	2.5	TOP:	III.D	
35.	Which layer of the E a. crust b. mantle c. core	arth has	s the greatest de	ensity?				
	ANS: C MSC: Factual	DIF:	Easy	REF:	2.5	TOP:	III.D	
36.	The Mohoa. lies at uniform do b. is found deeper u c. is found well below is found well below.	inderne inderne	ath continents t ath oceans than	han under	der oceans continents			
	ANS: B MSC: Applied	DIF:	Easy	REF:	2.5	TOP:	III.D.i.c	
37.	When you are warmed burn yourself touching						, as opposed to when you ou are experiencing	
	a. advection; conduction; cond					tion; convection ction; convection		
	ANS: B MSC: Applied	DIF:	Medium	REF:	2.5	TOP:	III.F.i   III.F.ii	

38. The image below shows \_\_\_\_\_\_, where a hot liquid rises into a cooler material, and heat then conducts from the hot liquid into the cooler material.

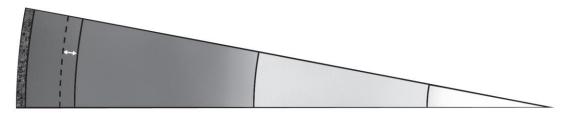


a. advectionb. conductionc. convectiond. radiation

ANS: A DIF: Medium REF: 2.5 TOP: III.F.iv

MSC: Factual

39. From left to right, correctly label each section of this slice of the Earth.



- a. crust, liquid outer core, transition zone, solid inner core, upper mantle, lower mantle
- b. crust, upper mantle, transition zone, lower mantle, liquid outer core, solid inner core
- c. transition zone, crust, upper mantle, lower mantle, liquid outer core, solid inner core
- d. transition zone, crust, liquid outer core, solid inner core, upper mantle, lower mantle

ANS: B DIF: Medium REF: 2.5 TOP: III.D

MSC: Factual

- 40. As compared to the rocks that make up the crust, Earth as a whole is \_\_\_\_\_\_.
  - a. considerably more dense c. slightly less dense

b. considerably less dense d. about the same density

ANS: A DIF: Medium REF: 2.5 TOP: II.C.iv

MSC: Applied

- 41. The velocities of seismic waves traveling from earthquake foci \_\_\_\_\_\_.
  - a. are uniform throughout all layers of Earth
  - b. monotonically decrease with depth, at a consistent rate of deceleration
  - c. monotonically increase with depth, at a consistent rate of acceleration
  - d. generally increase with depth, occasionally making abrupt jumps termed seismic velocity discontinuities

ANS: D DIF: Medium REF: 2.5 TOP: III.B

MSC: Conceptual

42.	The boundary betwee	n the crust and the	mantle is 1	narked by a se	ismic-v	elocity discontinuity	called
	a. the Edsel b. the Moho			Lyell's surfacthe crantle	ee		
	ANS: B MSC: Factual	DIF: Medium	REF:	2.5	TOP:	III.D.i.c	
43.	Earth's magnetic field a. flow of the liquid b. flow of the liquid	l is generated by th inner core outer core	c.	convective flo			
	ANS: B MSC: Applied	DIF: Medium	REF:	2.5	TOP:	III.D.iii	
44.	b. partly liquid and p	what has been found partly solid stly iron with a few	d in metalli	ic meteorites	)		
	ANS: D MSC: Applied	DIF: Medium	REF:	2.5	TOP:	III.E	
45.	As compared to ultrar a. greater proportion b. lesser proportion c. greater proportion	n of silica of silica			·		
	ANS: A MSC: Applied	DIF: Difficult	REF:	2.5	TOP:	II.C.iv	
46.	Ophiolite sequences a a. continental crust b. oceanic crust	are important to geo	c.	deep mantle rasthenosphere	nateria		
	ANS: B MSC: Conceptual	DIF: Difficult	REF:	2.5	TOP:	III.D.i.a	
47.	The lithosphere is cora. crust only	mposed of the					

## Earth Portrait of a Planet 5th Edition Marshak Test Bank

MSC: Applied

Full Download: http://alibabadownload.com/product/earth-portrait-of-a-planet-5th-edition-marshak-test-bank/ b. crust, mantle, and outer core top 100 m of sediments and sedimentary rocks d. crust and the uppermost part of the mantle ANS: D DIF: Easy REF: 2.6 TOP: III.H MSC: Factual The lithosphere lies directly above the \_\_\_ a. transition zone c. asthenosphere d. lower mantle b. crust ANS: C DIF: Easy REF: 2.6 TOP: III.H MSC: Factual 49. The distinction between the crust and the mantle is primarily on the basis of a difference in \_; the distinction between the lithosphere and the asthenosphere is primarily on the basis of a difference in a. chemistry (mineral content); degree of physical rigidity b. color; chemistry (mineral content) c. degree of physical rigidity; chemistry (mineral content) d. chemistry (mineral content); chemistry as well ANS: A DIF: Medium REF: 2.6 TOP: III.D.iii | III.G | III.H MSC: Conceptual 50. As compared to the asthenosphere, the lithosphere is \_\_\_ a. cooler and more able to flow c. cooler and less able to flow b. hotter and more able to flow d. hotter and less able to flow ANS: C DIF: Medium TOP: III.G | III.H REF: 2.6