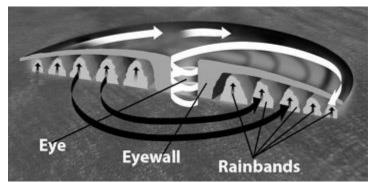
# Earth-Space Science Mr. Waddell Semester 2 Final Practice

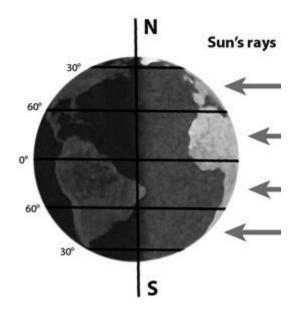
| Multi<br>Identij | _   | Choice<br>e choice that best completes the statement or answ  | vers              | the question.  |
|------------------|-----|---|-------------------|--|
|                  | 1.  | Earth's atmosphere contains more than an a. hydrogen and nitrogen b. helium and oxygen                                    | c.                | her substance.<br>nitrogen and oxygen<br>carbon and nitrogen                       |
|                  | 2.  | When the temperature in the atmosphere reache a. flash point b. dew point   | c.                | e, condensation occurs. evaporation point inversion point                          |
|                  | 3.  | In orographic lifting, clouds form when moist va. flow over the sea b. become drier                                       | c.                | s encounter mountains warm up the ground   |
|                  | 4.  | What is the constant movement of water between a. precipitation cycle b. water cycle                                      | c.                | ne atmosphere and Earth's surface? cloud cycle atmosphere cycle                    |
|                  | 5.  | The hot and humid weather in Texas during the a. Continental polar b. Continental tropical                                | c.                | nmer is most likely due to what type of air mass' Maritime polar Maritime tropical |
|                  | 6.  | Frigid air that travels southward from Canada v<br>a. Continental polar<br>b. Continental tropical                        | c.                | d be what type of air mass?  Maritime polar  Arctic                                |
|                  | 7.  | Current, short-term variations in the atmosphere a. humidity b. lapse rate  | c.                | e referred to as weather the ionosphere  |
|                  | 8.  | The Coriolis effect is due to the of Earth. a. revolution b. rotation   |                   | shape<br>density   |
|                  | 9.  | Low-pressure systems are usually associated wa. cold and dry b. cloudy and rainy  | c.                | weather. sunny and dry warm and humid  |
|                  | 10. | Which is NOT a condition that must exist in ora.  a. a source of moisture  b. lifting of the air mass                     | der t<br>c.<br>d. | an unstable atmosphere   |
|                  | 11. | In what stage of a thunderstorm would an equal a. cirrus stage b. cumulus stage   |                   | ount of updrafts and downdrafts exist? mature stage dissipation stage              |
|                  | 12. | What ultimately leads to a thunderstorm's dissi<br>a. the production of downdrafts<br>b. the loss of a supply of cold air | _                 | on? the decrease in cloud droplets the decrease of surface winds                   |



Use the diagram to answer the questions.

|         | 1  |
|---------|--|
| <br>13. | At which point would the strongest winds and densest clouds of the hurricane be located?  a. the eye  b. the eyewall  c. the rainbands  d. the outer edge                          |
| <br>14. | What is characteristic of the eye of the hurricane?  a. the strongest winds and densest clouds c. light clouds and precipitation b. thunderstorms d. calm weather and blue sky     |
| <br>15. | A(n) thunderstorm forms because of unequal heating of Earth's surface within one air mass. a. frontal mass   |
| <br>16. | The rising, moist updrafts and the falling, cool downdrafts form a convection cell that produces the associated with thunderstorms.  a. temperatures                               |
| <br>17. | When friction between updrafts and downdrafts within a cumulonimbus cloud creates regions of air with opposite charges, forms.  a. warm air b. lightning c. precipitation d. ozone |
| <br>18. | are often associated with very severe thunderstorms called supercells.  a. Tornadoes  b. Sea breezes  c. Hurricanes  d. Heat waves   |
| 19.     | What did Wladimir Köppen originally use to classify different climatic regions?  a. precipitation amounts  c. unique animal species  b. average temperature  d. natural vegetation |
|         |  |
| <br>20. | Which picture would most likely produce a heat island?   |
|         | a. suburbs c. park   |

b. city d. farmland



## Use the diagram to answer the questions.

| <br>21. | As the Earth revolves and the North Pole tilts towards the Sun, what season would the southern hemisp experience? |       |   |
|---------|---|-------|---|
|         | a. winter   | c.    | summer  |
|         | b. spring   | d.    | fall  |
| 22.     | As the Earth continues to revolve, which location   | on v  | vill experience the least climate change?         |
|         | a. 0°   |       | 30°S  |
|         | b. 30°N   | d.    | 60°N  |
| <br>23. | A widely used climate classification system is t  | the _ | system.   |
|         | a. Maunden  | c.    | Koeppen   |
|         | b. Topographic  | d.    | Korten  |
| 24.     | Studies indicate that periods of low sunspot act  | ivity | y, like the, correspond to unusually cold climate |
|         | conditions.   | -     |   |
|         | a. Maunder minimum  | c.    | Maunder divide                                    |
|         | b. Maunder ice age  | d.    | Maunder maximum                                   |
| 25.     | Two climates that are at the same latitude may  | be d  | lifferent because of                              |
|         | a. bodies of water  |       | Earth's magnetic field                            |
|         | b. distance from the poles  |       | soil type   |
| 26.     | Movement occurs along fractures in rocks whe  | n     |   |
|         | a. stress equals the strength of the rocks involved   |       |   |
|         | b. stress overcomes the strength of the rocks involved  | d.    | stress is less than the rocks involved            |
| <br>27. | The strain which causes a material to twist is kn   | now   | n as  |
|         | a. stress   | c.    | tension   |

|         | b. compression   | d.         | shear  |
|---------|--|------------|--|
| <br>28. | The strain which causes a material to pull apart a. stress b. compression  | c.         | tension shear  |
| <br>29. | P-waves and S-waves are also known as a. surface waves b. ground waves   | c.<br>d.   | body waves<br>first waves  |
|         | A C D Focus  |            |  |
| <br>30. | <ul><li>Use the diagram to answer the questions.</li><li>What is true about the focus?</li><li>a. It is the point where the most surface damage will occur.</li><li>b. It is the point where the surface waves</li></ul> |            | It is the point where the waves are attracted.  It is the point of failure where the waves             |
| <br>31. | originate and spread out.  A fault forms as a result of horizontal con a. blind b. normal  | npre<br>c. | originate.   |
| <br>32. | The San Andreas Fault, a result of horizontal sha. blind b. normal   | c.         | , is a fault.<br>strike-slip<br>reverse  |
| <br>33. | A numerical scale of earthquake magnitude that a. Richter scale b. modified Mercalli scale   | c.         | ses into account the size of the fault rupture is the moment magnitude scale epicentral distance scale |
| <br>34. | Which lists Earth materials in order of increasing a. oceanic crust, continental crust, mantle   | ng d       | ensity?  |

b. mantle, oceanic crust, continental crustc. continental crust, oceanic crust, mantled. continental crust, mantle, oceanic crust

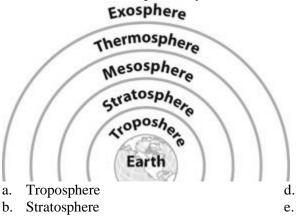
\_\_\_\_\_ 35. Subduction zones form at \_\_\_\_\_\_.

|         | <ul> <li>a. only oceanic-oceanic boundaries</li> <li>b. only oceanic-continental boundaries</li> <li>c. both oceanic-oceanic boundaries and oceanic-continental boundaries</li> <li>d. neither oceanic-oceanic boundaries or oceanic continental boundaries</li> </ul> |
|---------|--|
| <br>36. | A good model for isostasy is  a. a collision between two cars  b. the water line of a boat when someone boards or leaves it  c. scraping food off a plate  d. stretching a cracked, old rubber band  |
| <br>37. | Uplifted mountains  a. form when a large region of Earth's crust rises up as a unit b. have rocks that are not very deformed c. are the result of erosional forces d. all of the above   |
| <br>38. | Fault-block mountains  a. form when two continental plates collide  b. form above a subduction zone  c. form when a large pieces of crust are dropped between large faults  d. all of the above  |
| <br>39. | The Himalayas formed as the result of a. hot spot volcanism  |
| <br>40. | What force draws the matter in an interstellar cloud together to form a star?  a. electric c. magnetism  b. gravity d. friction  |
| <br>41. | What is the main reason why Venus' surface is so hot?  a. the large number of volcanoes on Venus  b. the very efficient greenhouse effect on Venus  c. the extremely fast rotation of Venus  d. the great amount of water on Venus                                     |
| <br>42. | Bodies of interplanetary debris that orbit the Sun with most in the area between Mars and Jupiter are called   |
|         | a. meteors b. comets c. asteroids d. meteorites  |
| <br>43. | Small, icy bodies that have highly eccentric orbits and can be found in the Oort cloud or the Kuiper belt are called   |
|         | <ul><li>a. meteors</li><li>b. comets</li><li>c. asteroids</li><li>d. meteorites</li></ul>  |
| <br>44. | Interplanetary material that enters the Earth's atmosphere and collides with the ground rather than burning up is called $a(n)$  |
|         | a. meteor c. asteroid b. comet d. meteorite  |
| <br>45. | What two gas giants appear blue because of the methane in their atmosphere?  |

|         | a. Jupiter and Saturn  | c.    | Neptune and Uranus                             |  |
|---------|--|-------|--|--|
|         | b. Saturn and Uranus   | d.    | Jupiter and Neptune                            |  |
| <br>46. | The result when Earth intersects a cometary orb  | it is | s a(n)   |  |
|         | a. asteroid shower   | c.    | loss of satellite communication                |  |
|         | b. aurora borealis   | d.    | meteor shower                                  |  |
| <br>47. | Which planet has composition and density mos   | t sin | nilar to the Sun?                              |  |
|         | a. Saturn  |       | Mercury  |  |
|         | b. Mars  | d.    | Venus  |  |
| <br>48. | Most of the light emitted by the Sun comes from the  |       |  |  |
|         | a. chromosphere  |       | photosphere                                    |  |
|         | b. corona  | d.    | prominence                                     |  |
| <br>49. | The apparent shift in a star's position caused by  |       |  |  |
|         | a. luminosity  |       | absolute magnitude                             |  |
|         | b. apparent magnitude  | d.    | parallax                                       |  |
| <br>50. | A star that is gravitationally bound to another s  | tar c | an either be part of a star cluster or a star. |  |
|         | a. constellation   |       | binary   |  |
|         | b. white dwarf   | d.    | red giant                                      |  |
| <br>51. | The Milky Way and the Andromeda are both   |       | <u>·</u>                                       |  |
|         | a. stars   | c.    | nebulae  |  |
|         | b. galaxies  | d.    | quasars  |  |
| <br>52. | Other galaxies were first believed to be  a. nebulae or star clusters within the Milky W b. quasars outside the Milky Way c. constellations within the Milky Way d. the Andromeda galaxy | ay    |  |  |
| <br>53. | Recent observations show that the rate of expar  | sio   | n of the universe is                           |  |
|         | a. slowing down  |       | constantly changing                            |  |
|         | b. stabilizing   | d.    | speeding up                                    |  |
|         |  |       |  |  |

## Matching

Match the correct atmospheric layer with its description.



Thermosphere Exosphere

|         | c. Mesosphere   |
|---------|---|
| <br>54. | also contains the ionosphere  |
| <br>55. | contains the ozone layer  |
| <br>56. | considered a transitional region                                    |
| <br>57. | where weather occurs  |
| <br>58. | temperatures decrease due to very little solar radiation absorption |

# **Earth-Space Science** Mr. Waddell Semester 2 Final Practice Answer Section

#### **MULTIPLE CHOICE**

- 1. C
- 2. B
- 3. C
- 4. B
- 5. D
- 6. A
- 7. C
- 8. B
- 9. B
- 10. D
- 11. C
- 12. A
- 13. B
- 14. D
- 15. C
- 16. D
- 17. B
- 18. A
- 19. D
- 20. B
- 21. A
- 22. A
- 23. C
- 24. A
- 25. A
- 26. B
- 27. D
- 21. D
- 28. C
- 29. C 30. D
- 31. D
- 32. C
- 33. C
- 34. C
- 35. C
- 36. B
- 37. D
- 38. C
- 39. C
- 40. B

- 41. B
- 42. C
- 43. B
- 44. D
- 45. C
- 46. D
- 47. A
- 48. C
- 49. D
- 50. C
- 51. B
- 52. A
- 53. D

# **MATCHING**

- 54. D
- 55. B
- 56. E
- 57. A
- 58. C