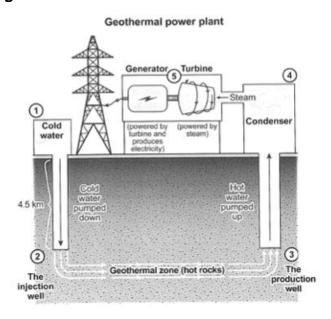
Energy Resources Exam

Directions: Read each question carefully and choose the best answer.

- 1. Powering cell phones, tablets, and video games consoles requires the use of electricity. Which of the following resources listed are renewable energy resources?
 - A. Coal and oil
 - B. Wind and solar
 - C. Natural gas and geothermal energy
 - D. Solar and petroleum
- 2. Geothermal energy is an energy resource which relies on the following infinite resource?



- A. Energy from the sun
- B. Energy from wind
- C. Energy from running water
- D. Energy from the heat in earth's interior

- 3. Georgia Power is building a new power plant to provide energy to several communities. What is a major advantage of using solar energy versus coal or natural gas?
 - A. Solar energy is a renewable resource.
 - B. Solar energy is available 24 hours a day.
 - C. Solar energy is cheaper than coal or natural gas.
 - D. Solar energy is nonrenewable.
- 4. How does oil and the sun compare as energy resources?
 - A. Coal is renewable and the sun is nonrenewable.
 - B. Coal is renewable and the sun is renewable.
 - C. Coal is nonrenewable and the sun is renewable.
 - D. Coal is nonrenewable and the sun is nonrenewable.
- 5. Coal, oil, and natural gas, also known as fossil fuels, are energy resources that increase the amount of pollution in our atmosphere. Which of the following is also a disadvantage for excessive use of coal, oil, and natural gas?
 - A. Fossil fuels are renewable energy resources.
 - B. Fossil fuels are available in an unlimited supply.
 - C. Fossil fuels cannot be replaced within a human lifetime.
 - D. Fossil fuels are abundant on Earth.
- 6. Flint Energies charged a customer \$62.50 for 800 kWh. What was the unit rate charged per kWh?
 - A. 0.045230
 - B. 0.054632
 - C. 0.069834
 - D. 0.078125

- 7. Georgia Power charges customers 0.0088 cents per kWh. If a house uses 2,195 kWh, which of the following represents the total amount of their electric bill?
 - A. \$249,431.82
 - B. \$1.93
 - C. \$19.32
 - D. \$193.20
- 8. An XBox video game console uses 36 Watts of energy. How many hours (approximately) can Tyler play Fortnite before he uses 1 kWh of energy? (1 kilowatt-hour = 1,000 Watts)
 - **A.** 3.6 hours
 - B. 16 hours
 - C. 22 hours
 - D. 28 hours
- A microwave oven uses 1,750 Watts of energy. How many kilowatt-hours of energy does the microwave consume when in use? (1 kilowatt-hour = 1,000 Watts)
 - A. 1.5 kWh
 - B. 1.75 kWh
 - C. 2.0 kWh
 - D. 2.25 kWh
- 10. A water heater consumes 4.5 kWh. If Emma takes a hot shower for 30 minutes, how many kWh does the water heater consume?
 - A. 9.0 kWh
 - B. 4.5 kWh
 - C. 2.25 kWh
 - D. 1.125 kWh

Energy Resources Unit Exam Answer Key & Aligned Standards

- 1. B S6E6a
- 2. D S6E6a
- 3. A S6E6a
- 4. C S6E6a
- 5. C S6E6a
- 6. D MGSE6.RP.3b
- 7. C MGSE6.RP.3b
- 8. D MGSE6.RP.3d
- 9. B MGSE6.RP.3d
- 10.C MGSE6.RP.3b