

# Save The Earth Renewable Energy Worksheet

Name: \_\_\_\_\_  
Date: \_\_\_\_\_

Class: \_\_\_\_\_  
Marks: \_\_\_\_\_ /30

## Section 1: Multiple Choice Questions (10 marks)

One out of the four options is correct. Answer the following questions and write down the correct letter down.

*(Each question is worth 2 marks)*

1) Which of the following is NOT a form of renewable energy?

- A) Solar Energy
- B) Wind energy
- C) Wood Energy
- D) Geothermal Energy

2) What is one major disadvantage of solar energy?

- A) There is a virtually unlimited supply of solar energy
- B) Receives different amount of sunlight at different times of the day
- C) Factors such as weather affect the amount of sunlight received
- D) The price of building the solar panels

3) What is the energy conversion of wind energy be represented as?

- A) Electrical energy > Kinetic energy of turbine > Kinetic energy of wind
- B) Kinetic energy of wind > Kinetic energy of turbine > Electrical energy
- C) Kinetic energy of wind > Electrical energy of turbine > Electrical energy
- D) Potential energy of wind > Kinetic energy of turbine > Electrical energy

4) What are the advantages of wind energy?

- i) Economy benefits in the area
- ii) Renewable
- iii) Does not cause pollution
- iv) Wind turbines spoil the beauty of the land

- A) i, ii only
- B) ii, iii only
- C) i, ii, iii only
- D) All of the above

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- 5) What is the energy conversion of water energy be represented as?
- A) Potential energy (water) > Kinetic energy (water) > Kinetic energy (turbines) > Electrical energy
  - B) Electrical energy > Kinetic energy (turbines) > Kinetic energy (water) > Potential energy (water)
  - C) Kinetic energy (water) > Kinetic energy (turbines) > Potential energy (water) > Electrical energy
  - D) Potential energy (water) > Kinetic energy (water) > Potential energy (turbines) > Chemical energy

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## Section 2: Open Ended Questions (20 marks)

Answer the following questions.

*(Each question is worth 2 marks)*

1) What are renewable energies?

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2) What is a common advantage and disadvantage of renewable energies?

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3) What is solar energy? What are some forms of solar energy?

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4) What are some of the advantages of solar energy? Name any 2 of them.

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5) How do the wind turbines work?

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6) How is the wind turbines built and placed for a better source of energy?

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7) What is a wind farm?

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8) What are some of the disadvantages of wind energy? Name any 2 of them.

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8) What are some of the advantages of water energy? Name any 2 of them.

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10) What are some of the disadvantages of water energy? Name any 2 of them.

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20 – 30 > Excellent, you love renewable energies

10 – 20 > Not bad, keep it up

0 – 10 > Work harder