

UNIT-IV GEOTHERMAL ENERGY**Fill in the Blanks**

1. Geothermal energy is derived from the heat of the _____.
Answer: Earth
2. The word “geothermal” comes from Greek words meaning _____ and heat.
Answer: Earth
3. The natural reservoirs of hot water and steam beneath the Earth are called _____.
Answer: Geothermal reservoirs
4. The hot molten rock beneath the Earth’s surface is called _____.
Answer: Magma
5. Geothermal energy is a _____ source of energy.
Answer: Renewable
6. The process of using steam to generate electricity is done using a _____.
Answer: Turbine
7. The temperature of geothermal sources increases with depth due to the _____ gradient.
Answer: Geothermal
8. The wells drilled to extract geothermal energy are called _____ wells.
Answer: Geothermal
9. A common application of geothermal energy is _____ generation.
Answer: Electricity
10. Geothermal energy produces very _____ pollution.
Answer: Low

□ Multiple Choice Questions (MCQs)

1. Geothermal energy is obtained from:
A) Sun
B) Wind
C) Earth’s heat
D) Water
Answer: C) Earth’s heat
2. The main source of geothermal energy is:
A) Ocean tides
B) Earth’s internal heat
C) Air pressure
D) Solar radiation
Answer: B) Earth’s internal heat
3. Which of the following is used to generate electricity in geothermal plants?
A) Compressor
B) Turbine
C) Pump only
D) Battery
Answer: B) Turbine
4. The molten rock beneath the Earth’s crust is called:
A) Lava
B) Magma
C) Coal
D) Ash
Answer: B) Magma
5. Geothermal energy is:
A) Non-renewable

- B) Renewable
- C) Fossil fuel
- D) Nuclear

Answer: B) Renewable

6. Which country is famous for geothermal energy use?
- A) India
 - B) Iceland
 - C) Brazil
 - D) Egypt

Answer: B) Iceland

7. The geothermal gradient refers to:
- A) Pressure increase
 - B) Temperature increase with depth
 - C) Wind speed
 - D) Heat loss

Answer: B) Temperature increase with depth

8. Geothermal energy is mainly used for:
- A) Cooling only
 - B) Electricity and heating
 - C) Lighting only
 - D) Sound production

Answer: B) Electricity and heating

9. Which of the following has the least pollution?
- A) Coal
 - B) Diesel
 - C) Geothermal energy
 - D) Petrol

Answer: C) Geothermal energy

10. Hot water from geothermal sources is brought to the surface through:
- A) Pipes
 - B) Wells
 - C) Tanks
 - D) Boilers

Answer: B) Wells