Chapter - 14

Source of Energy

1. Which of the following is a non-renewable source of energy?

a) Solar energy
b) Wind energy
c) Biomass energy
d) Fossil fuel energy
Answer: d) Fossil fuel energy
2. Which of the following is a renewable source of energy?
a) Coal
b) Natural gas
c) Solar energy
d) Nuclear energy
Answer: c) Solar energy
3. Which of the following is a form of biomass energy?
a) Geothermal energy
b) Tidal energy
c) Biogas energy
d) Hydroelectric energy
Answer: c) Biogas energy
4. Which of the following is an example of a conventional source of energy?

a) Solar energy
b) Wind energy
c) Coal
d) Geothermal energy
Answer: c) Coal
5. The process of splitting the nucleus of an atom is called:
a) Nuclear fusion
b) Nuclear fission
c) Combustion
d) Condensation
Answer: b) Nuclear fission
6. Which of the following is a disadvantage of using fossil fuels?
a) Abundant availability
b) Low pollution emissions
c) Depletion of resources
d) Renewable nature
Answer: c) Depletion of resources
7. Which of the following is an advantage of using wind energy?
a) High initial cost
b) Limited availability
c) Pollution-free operation
d) Unpredictable power output

Answer: c) Pollution-free operation

8. Which renewable energy source is generated by the gravitational interaction between the Earth, the Moon, and the Sun?
a) Solar energy
b) Wind energy
c) Tidal energy
d) Geothermal energy
Answer: c) Tidal energy
9. Which of the following is the cleanest form of energy?
a) Fossil fuels
b) Nuclear energy
c) Geothermal energy
d) Solar energy
Answer: d) Solar energy
10. Which of the following is a fossil fuel?
a) Natural gas
b) Biogas
c) Hydroelectricity
d) Geothermal energy
Answer: a) Natural gas
11. Which of the following is an example of a non-conventional source of energy?
a) Coal
b) Natural gas

c) Solar energy
d) Nuclear energy
Answer: c) Solar energy
12. The process of harnessing energy from the Sun to generate electricity is known as:
a) Solar power
b) Geothermal power
c) Tidal power
d) Nuclear power
Answer: a) Solar power
13. Which of the following is an advantage of using biomass energy?
a) High efficiency
b) Low carbon emissions
c) Limited availability
d) High cost of production
Answer: b) Low carbon emissions
14. The primary source of energy in the Sun is:
a) Nuclear energy
b) Chemical energy
c) Geothermal energy
d) Wind energy
Answer: a) Nuclear energy

15. Which of the following is a renewable source of energy derived from the Earth's internal heat?	
a) Solar energy	
b) Wind energy	
c) Geothermal energy	
d) Biomass energy	
Answer: c) Geothermal energy	
16. The process of converting light energy into electrical energy using photovoltaic cells is called:	
a) Solar thermal power	
b) Solar photovoltaic power	
c) Tidal power	
d) Biomass power	
Answer: b) Solar photovoltaic power	
17. Which of the following is an example of a tidal power plant in India?	
a) Sardar Sarovar Dam	
b) Tehri Dam	
c) Bhakra Nangal Dam	
d) Gulf of Kutch Tidal Park	
Answer: d) Gulf of Kutch Tidal Park	
18. Which of the following is the most abundant fossil fuel?	
a) Coal	
b) Natural gas	

c) Petroleum
d) Uranium
Answer: a) Coal
19. The process of converting biomass into biogas in the presence of microorganisms is called:
a) Combustion
b) Gasification
c) Fermentation
d) Carbonization
Answer: c) Fermentation
20. Which of the following is an advantage of using nuclear energy?
a) Low cost of production
b) Abundant availability
c) High safety standards
d) Large carbon footprint
Answer: c) High safety standards
21. Which of the following is an example of a non-renewable source of energy?
a) Wind energy
b) Solar energy
c) Biomass energy
d) Coal
Answer: d) Coal
22. Which of the following is a renewable source of energy derived from organic matter?

a) Geothermal energy
b) Tidal energy
c) Biomass energy
d) Nuclear energy
Answer: c) Biomass energy
23. The process of harnessing energy from the movement of water is known as:
a) Solar power
b) Geothermal power
c) Hydroelectric power
d) Nuclear power
Answer: c) Hydroelectric power
24. Which of the following is an advantage of using wind energy?
a) High maintenance cost
b) Limited availability
c) Pollution-free operation
d) Unpredictable power output
Answer: c) Pollution-free operation
25. The energy stored in the nucleus of an atom is known as:
a) Chemical energy
b) Thermal energy
c) Nuclear energy
d) Electrical energy

Answer: c) Nuclear energy 26. Which of the following is a disadvantage of using solar energy? a) High initial cost b) Limited availability c) Pollution emissions d) Unreliable output Answer: a) High initial cost 27. The process of converting sunlight directly into electricity using a solar cell is called: a) Solar thermal power b) Solar photovoltaic power c) Tidal power d) Biomass power Answer: b) Solar photovoltaic power 28. Which of the following is a renewable source of energy derived from the motion of waves in the ocean? a) Solar energy b) Wind energy c) Tidal energy d) Geothermal energy Answer: c) Tidal energy

29. Which of the following is an example of a fossil fuel?

a) Hydroelectricity

b) Biogas
c) Natural gas
d) Geothermal energy
Answer: c) Natural gas
30. Which of the following is a disadvantage of using nuclear energy?
a) High cost of production
b) Abundant availability
c) Radioactive waste disposal
d) Low power output
Answer: c) Radioactive waste disposal
31. Which of the following is a renewable source of energy derived from the heat stored within the Earth's crust?
a) Geothermal energy
b) Biomass energy
c) Wind energy
d) Nuclear energy
Answer: a) Geothermal energy
32. The process of converting biomass into a solid fuel by heating it in the absence of air is called:
a) Combustion
b) Gasification
c) Fermentation
d) Carbonization
Answer: d) Carbonization

33. Which of the following is a disadvantage of using hydropower?	
a) High maintenance cost	
b) Limited availability	
c) Pollution emissions	
d) Environmental impact	
Answer: d) Environmental impact	
34. Which of the following is an advantage of using tidal energy?	
a) High initial cost	
b) Limited availability	
c) Predictable power output	
d) Unreliable source	
Answer: c) Predictable power output	
35. The process of converting the chemical energy stored in fossil fuels into heat energy is called:	
a) Combustion	
b) Gasification	
c) Fermentation	
d) Carbonization	
Answer: a) Combustion	
36. Which of the following is a renewable source of energy derived from the movement of air masses on Earth?	
a) Solar energy	

b) Wind energy
c) Tidal energy
d) Geothermal energy
Answer: b) Wind energy
37. Which of the following is a non-renewable source of energy obtained from the remains of ancient plants and animals?
a) Geothermal energy
b) Wind energy
c) Solar energy
d) Fossil fuel energy
Answer: d) Fossil fuel energy
38. Which of the following is an advantage of using biomass energy?
a) High efficiency
b) Low carbon emissions
c) Limited availability
d) High cost of production
Answer: b) Low carbon emissions
39. The process of converting biomass into a gaseous fuel by heating it in the presence of air or oxygen is called:
a) Combustion
b) Gasification
c) Fermentation
d) Carbonization

b) Limited availability

c) Environme	ental impact
d) No fuel co	ost
Answer: d) N	lo fuel cost
44. Which of the	ne following is a non-renewable source of energy formed from the remains of ms?
a) Geotherm	al energy
b) Wind ene	rgy
c) Tidal ener	gy
d) Petroleum	١
Answer: d) F	Petroleum
a) Solar powb) Geothermc) Tidal powd) Nuclear p	nal power er
·	Geothermal power
46. Which of th	ne following is an advantage of using hydropower?
a) High main	tenance cost
b) Limited av	vailability
c) Large-sca	le power generation
d) High carb	on emissions
Answer: c) L	arge-scale power generation

47. Which of the following is a renewable source of energy derived from the movement of oceanic waves?
a) Solar energy
b) Wind energy
c) Tidal energy
d) Geothermal energy
Answer: c) Tidal energy
48. Which of the following is an advantage of using biogas as a source of energy?
a) Limited availability
b) Low pollution emissions
c) High cost of production
d) Unreliable source
Answer: b) Low pollution emissions
49. The process of converting the kinetic energy of wind into mechanical or electrical energy is called:
a) Solar power
b) Wind power
c) Tidal power
d) Biomass power
Answer: b) Wind power
50. Which of the following is a disadvantage of using nuclear energy?
a) Limited availability

- b) High maintenance cost
- c) Radioactive waste generation
- d) Low power output

Answer: c) Radioactive waste generation