

Sources of Energy and Natural Resources**Practice Exercise**

1. What is the full form of LPG?
(a) Liquid Pentene Gas
(b) Liquefied Petroleum Gas
(c) Large Pressured Gas
(d) Liquid Pressurised Gas
(e) None of these
2. Natural gas consists of:
(a) Methane with small quantities of ethane and propane
(b) Butane only
(c) Butane with small amount of propane and ethane only
(d) Propane only
(e) None of these
3. A hydro power plant converts the :
(a) Muscular energy into electrical energy
(b) Potential energy into electrical energy
(c) Tension energy into electrical energy
(d) Solar energy into electrical energy
(e) None of these
4. Which of the following is a biomass fuel?
(a) Agricultural waste (b) Animal dung
(c) Uranium (d) Both (a) and (b)
(e) None of these
5. Biogas is a mixture of:
(a) Methane, carbon dioxide, hydrogen and hydrogen sulphide
(b) Methane, carbon dioxide and hydrogen sulphide only
(c) Methane and carbon dioxide only
(d) Carbon dioxide and hydrogen sulphide only
(e) None of these
6. Which of the following is not directly or indirectly derived from the solar energy?
(a) Wind energy
(b) Geothermal energy
(c) Fossil fuel
(d) Biomass fuel
(e) None of these
7. Which of the following elements is most suitable for making atom bomb? Element with atomic mass:
(a) 235 (b) 135
(c) 15 (d) 10
(e) None of these
8. One atomic mass unit is equal to:
(a) $1.492 \times 10^{-10} J$ (b) $1.492 \times 10^{-8} J$
(c) $1.7 \times 10^{-10} J$ (d) $1.7 \times 10^{-8} J$
(e) None of these
9. The fuel having a calorific value of 55 KJ/g is likely to be:
(a) Biogas (b) Methane gas
(c) Hydrogen gas (d) Charcoal
(e) None of these
10. A programme, that has been started to replenish the forests by growing more trees and plants, is called:
(a) Silviculture (b) Tissue culture
(c) Sericulture (d) Apiculture
(e) None of these
11. Which one of the following is an advantage of the programme silviculture?
(a) It produces a large quantity of raw materials for industry.
(b) It increases the area of earth under forests.
(c) It maintains a perfect water cycle in nature.
(d) All the above (e) None of these
12. Despite of good rain in India, they are not able to meet the demand of water for all the people, because of which one of the following reasons?
(a) Our population is increasing rapidly.
(b) Due to lack of sufficient vegetation cover on the ground.
(c) The changing life style of people, especially in urban areas is consuming more water.
(d) All the above
(e) None of these

13. Which one of the following statements is correct?

Statement 1: Dams are big storehouse of river water.

Statement 2: The falling water from the dams is used to generate electricity.

- (a) Statement 1
(b) Statement 2
(c) Both statements are correct
(d) Both statements are incorrect
(e) None of these
14. Which one of the following is a source of water?
(a) Oceans (b) Glaciers
(c) Ponds (d) All the above
(e) None of these
15. The Bishnoi community of Rajasthan is associated with the conservation of:
(a) Water resources
(b) Natural resources
(c) Forest and wildlife
(d) Endangered animals
(e) None of these
16. A large area of land on which trees and other plants grow naturally is called:
(a) Flora (b) Fauna
(c) Wildlife (d) Forest
(e) None of these
17. The wild animals (like deer, elephant, lion, birds, etc. Which live in a forest are called:
(a) A habitat (b) Fauna and flora
(c) Wildlife (d) Forest
(e) None of these
18. Proper management of natural resources is essential for:
(a) Judicial use of natural resources.
(b) Conservation of natural resources.
(c) Overuse of natural resources.
(d) Both (a) and (b)
(e) None of these
19. Which of the following statements is correct?
Statement 1: The construction of high-rise dams on the rivers contribute to deforestation and loss of biodiversity.

Statement 2: The pollution of river water is caused by the dumping of untreated sewage and industrial wastes into it.

- (a) Statement 1
(b) Statement 2
(c) Both statements are correct
(d) Both statements are incorrect
(e) None of these
20. Which one among the following has the maximum calorific value?
(a) Dung cakes (b) Biogas
(c) Petrol (d) Charcoal
(e) None of these
21. Which one of the following fuels is used to drive turbines in a thermal power plant?
(a) Uranium (b) Coal
(c) Sun (d) Hydrogen
(e) None of these
22. OTE refers to:
(a) Ocean Thermal Energy
(b) Ocean Transition Energy
(c) Operated Technical Element
(d) Ocean Thermal Effect
(e) None of these
23. Match the following:
- | Column A | Column B |
|------------------------------------|---------------|
| (i) Bharatpur Bird Sanctuary | (A) Orissa |
| (ii) Kaziranga National Park | (B) Haryana |
| (iii) Chilika Lake Bird Sanctuary | (C) Rajasthan |
| (iv) Sultanpur Lake Bird Sanctuary | (D) Assam |
- (a) (i - C), (ii - B), (iii - D), (iv - A)
(b) (i - C), (ii - D), (iii - A), (iv - B)
(c) (i - B), (ii - D), (iii - C), (iv - A)
(d) (i - D), (ii - A), (iii - B), (iv - C)
(e) None of these
24. Which one among the following is a non renewable source of energy?
(a) Natural gas (b) Biogas
(c) Tidal energy (d) Hydroelectricity
(e) None of these

25. Which one of the following is not included in biomass energy?

- (a) Agricultural waste (b) Cow-dung
(c) Nuclear energy (d) Wood
(e) None of these

26. Which one of the following statements is incorrect?

- (a) Dung cakes have low calorific value.
(b) Natural gas is prepared by using cow dung cakes.
(c) Dung cakes can be used as manure.
(d) All the above
(e) None of these

27. Match the following:

Column A	Column B
(i) Ponds	(A) Maharashtra
(ii) Kattas	(B) Kerala
(iii) Surangams	(C) Karnataka
(iv) Bandharas	(D) Jammu region

- (a) (i - D), (ii - C), (iii - B), (iv - A)
(b) (i - D), (ii - A), (iii - B), (iv - C)
(c) (i - C), (ii - D), (iii - A), (iv - B)
(d) (i - B), (ii - C), (iii - A), (iv - D)
(e) None of these

28. Which one of the following is a pair of fossil fuels?

- (a) Wave energy and coal
(b) Solar energy and biogas
(c) Natural gas and biogas
(d) Coal and petroleum
(e) None of these

29. If we are using discarded items of paper, plastic and sending them to the respective industries for making useful objects. Then which R among the three K s to save the environment we are following?

- (a) Reuse (b) Reduce
(c) Recycle (d) All the above
(e) None of these

30. Which of the following is obtained from petroleum?

- (a) Biogas (b) Kerosene
(c) LPG (d) Both (b) and (c)
(e) None of these

31. Which of the following statements is correct?

Statement 1: Presence of lactobacillus in river indicates contamination of river water.

Statement 2: Presence of Coliform bacteria in river indicates contamination of river water.

- (a) Statement 1 is correct only
(b) Statement 2 is correct only
(c) Both the statements are correct.
(d) Both the statements are incorrect
(e) None of these

32. _____ is used in solar cell.

- (a) Titanium (b) Silicon
(c) Sulphur (d) Tenon
(e) None of these

33. Who among the following created world's first nuclear reactor?

- (a) Thomson (b) Einstein
(c) Enrico Fermi (d) Hans Bethe
(e) None of these

34. Which one of the following is a natural resource?

- (a) Water (b) Air
(c) Soil (d) All the above
(e) None of these

35. Chipko Movement is related with:

- (a) Protection of water
(b) Protection of soil
(c) Protection of trees
(d) Protection of animals
(e) None of these

36. Which of the following is an advantage of silviculture?

- (a) Production of large quantities of raw materials for industry.
(b) Increasing the area of earth under forests.
(c) Maintaining a perfect water cycle in nature.
(d) All the above (e) None of these

37. Which one of the following activities can create imbalance in nature?

- (a) Killing large number of snakes.
(b) Cutting large number of trees.
(c) Keeping large number of animals in a zoo.
(d) Both (a) and (b)
(e) None of these

38. Which one of the following statements is incorrect?

- (a) Natural habitats of wild animals should be preserved by establishing National parks.
- (b) If some type of wild animals are in abundance today their indiscriminate killing should be allowed by the forest authorities.
- (c) Laws should be made to impose a total ban on killing any animal belonging to endangered species.
- (d) All the above
- (e) None of these

39. National Park is an area which is strictly reserved for the welfare of :

- (a) Birds only
- (b) Wildlife only
- (c) Tigers only
- (d) Large snakes only
- (e) None of these

40. Match the following:

Column A	Column B
(i) $150\text{ kJ} / \text{g}$	(A) Cooking gas
(ii) $17\text{ kJ} / \text{g}$	(B) Alcohol
(iii) $50\text{ kJ} / \text{g}$	(C) Hydrogen
(iv) $30\text{ kJ} / \text{g}$	(D) Wood

- (a) (i - D), (ii - C), (iii - A), (iv - B)
- (b) (i - C), (ii - D), (iii - A), (iv - B)
- (c) (i - C), (ii - D), (iii - B), (iv - A)
- (d) (i - C), (ii - A), (iii - B), (iv - D)
- (e) None of these

Answers – Key

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