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# Practice **Set 2**

## Physics, English & **ENVIRONMENTAL SCIENCES**

### Topics :

Modes of heat transfer, Various temperature scale, conversion of temperature, Kelvin – Celsius, Kelvin – Fahrenheit, Fahrenheit – Celsius and vice versa, Parts of Speech, Tenses, Subject Verb Agreement, Ecosystem, Pollution and its types, Climate Change, Renewable Sources of Energy such as Hydro, Solar, Wind, Bio-mass, Tidal and Geothermal - their availability and limitations.

**DDCE final exam weightage of this topic :** 13 Questions ( 26 Marks )

**Total Practice sets  
of this topic :**

12 ( sets ) x 25 ( questions ) = 300 Questions

**Total Practice tests  
of this topic :**

5 ( exams ) x 50 ( questions ) = 250 Questions

**Offline / Online  
during lecture :**

4 ( lectures ) X 50 ( Questions ) = 200 Question

**Total 750 Questions to  
practice this topic**



**91739 04421**



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1. Heat transfer through direct contact of particles is called:
  - A. Radiation
  - B. Conduction
  - C. Convection
  - D. Diffusion
2. Which of the following modes of heat transfer can occur in a vacuum?
  - A. Conduction
  - B. Convection
  - C. Radiation
  - D. All of the above
3. Which material is a good conductor of heat?
  - A. Wood
  - B. Plastic
  - C. Copper
  - D. Glass
4. Which of the following does not require a medium to transfer heat?
  - A. Conduction
  - B. Convection
  - C. Radiation
  - D. None
5. Which surface is best at emitting and absorbing heat radiation?
  - A. Shiny and white
  - B. Dull and black
  - C. Polished metal
  - D. Transparent
6. What is the freezing point of water in Celsius?
  - A. 100°C
  - B. 0°C
  - C. 32°C
  - D. 273°C
7. Convert 0°C to Kelvin.
  - A. 273 K
  - B. 0 K
  - C. 100 K
  - D. 32 K
8. The flow of energy in an ecosystem is:
  - A. Cyclic
  - B. Linear
  - C. Random
  - D. Reversible
9. Producers in an ecosystem are usually:
  - A. Animals
  - B. Bacteria
  - C. Fungi
  - D. Green plants
10. Which is the correct sequence in a food chain?
  - A. Producer → Carnivore → Herbivore
  - B. Carnivore → Herbivore → Producer
  - C. Producer → Herbivore → Carnivore
  - D. Herbivore → Producer → Carnivore





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11. Decomposers help in:

- A. Energy production
- B. Nutrient recycling
- C. Water purification
- D. Photosynthesis

12. Abiotic components of an ecosystem include:

- A. Fungi
- B. Plants
- C. Temperature
- D. Animals

13. The major cause of water pollution is:

- A. Thermal energy
- B. Industrial discharge
- C. Overfishing
- D. Use of hydro energy

14. Which gas is not a greenhouse gas?

- A. CO<sub>2</sub>
- B. Methane
- C. Nitrous oxide
- D. Hydrogen

15. Greenhouse effect is essential for life because it:

- A. Cools the Earth
- B. Blocks harmful rays
- C. Maintains Earth's temperature
- D. Protects from meteors

16. Which of the following is a limitation of wind energy?

- A. High maintenance
- B. Noise pollution
- C. Dependent on wind availability
- D. Emits carbon dioxide

17. Which of the following is a proper noun?

- A. city
- B. river
- C. Mumbai
- D. mountain

18. Identify the abstract noun:

- A. Strength
- B. Horse
- C. Cup
- D. Park

19. Which of the following nouns is countable?

- A. Water
- B. Sugar
- C. Car
- D. Rice

20. Choose the plural noun:

- A. Book
- B. Books
- C. Bottle
- D. Chair





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21. "She has three pencils." – What is "three"?

- A. Descriptive
- B. Demonstrative
- C. Quantitative
- D. Numerical

22. "She is the most intelligent girl." – Identify the adjective form:

- A. Positive
- B. Comparative
- C. Superlative
- D. Demonstrative

23. "The black cat jumped over the wall." – Adjective used:

- A. Wall
- B. Cat
- C. Black
- D. Jumped

24. "The man who called you is outside." - What is "who"?

- A. Personal
- B. Interrogative
- C. Relative
- D. Demonstrative

25. "Each of the players did his best." – What is "Each"?

- A. Demonstrative
- B. Indefinite
- C. Interrogative
- D. Personal

