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Practice **Set 3** Solution

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**



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1. Which of the following is an abiotic component of an ecosystem?

- A. Bacteria
- B. Fungi
- C. Sunlight ✓
- D. Animals

2. A food web is a:

- A. Single chain showing the transfer of energy.
- B. Network of interconnected food chains. ✓
- C. Group of similar organisms feeding on the same food source.
- D. Diagram showing the decomposition process.

3. The primary producers in most terrestrial ecosystems are:

- A. Carnivores
- B. Herbivores
- C. Decomposers
- D. Plants ✓

4. Pollution is best defined as:

- A. The natural degradation of the environment.
- B. The introduction of harmful substances or energy into the environment. ✓
- C. The excessive growth of certain plant species.
- D. The depletion of natural resources.

5. The efficiency of solar panels is affected by:

- A. Wind speed
- B. Humidity levels
- C. Cloud cover and the angle of sunlight ✓
- D. Soil composition

6. The availability of hydropower is primarily dependent on:

- A. Wind speed and consistency.
- B. Solar irradiance levels.
- C. Precipitation and river flow. ✓
- D. Geothermal gradients.

7. Climate change primarily refers to:

- A. Short-term variations in weather patterns.
- B. Long-term shifts in temperatures and weather patterns. ✓
- C. The natural fluctuations in Earth's climate throughout history.
- D. The seasonal changes in temperature and precipitation.

8. Wind turbines are typically located in areas with:

- A. Low and variable wind speeds.
- B. Consistent and high wind speeds. ✓
- C. Dense forests.
- D. High seismic activity.

9. The temperature at which Celsius and Fahrenheit scales show the same reading is:

- A. 0°
- B. -40° ✓
- C. 100°
- D. 273°

10. Convert 500 K to Fahrenheit:

- A. 440.33°F ✓
- B. 232°F
- C. 100°F
- D. 212°F



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11. If the temperature of a body is 50°C , what is its temperature in Fahrenheit?

- A. 122°F ✓
- B. 10°F
- C. 323°F
- D. 82°F

12. The freezing point of water in Kelvin is:

- A. 0 K
- B. 273 K ✓
- C. 373 K
- D. 32 K

13. Which temperature scale does not have negative values?

- A. Celsius
- B. Fahrenheit
- C. Kelvin ✓
- D. All have negative values

14. Convert 25°C to Kelvin:

- A. 298 K ✓
- B. 273 K
- C. 248 K
- D. 25 K

15. The rate of heat conduction depends on:

- A. Temperature difference
- B. Material properties
- C. Thickness of the material
- D. All of the above ✓

16. Convert 68°F to Celsius:

- A. 20°C ✓
- B. 0°C
- C. 100°C
- D. -20°C

17. I _____ (go) to the market yesterday.

- A. go
- B. goes
- C. went ✓
- D. going

18. She _____ (study) for her exams now.

- A. studies
- B. is studying ✓
- C. studied
- D. will study

19. They _____ (finish) their work by tomorrow.

- A. finish
- B. finished
- C. are finishing
- D. will have finished ✓

20. He _____ (live) in this city for ten years.

- A. lives
- B. lived
- C. has lived ✓
- D. is living





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21. The sun _____ (rise) in the east.

- A. rises ✓
- B. rose
- C. is rising
- D. will rise

22. She _____ (travel) to Europe next month.

- A. travels
- B. is traveling ✓
- C. traveled
- D. has traveled

23. If I had known, I _____ (help) you.

- A. will help
- B. would have helped ✓
- C. help
- D. helped

24. By the time we arrive, the meeting _____ (already/start).

- A. already starts
- B. has already started ✓
- C. is already starting
- D. already started

25. She goes to school every day. (Identify the tense)

- A. Present Continuous
- B. Present Simple ✓
- C. Past Simple
- D. Future Simple

