

Winmeen Tnpsc Group 1 & 2 Study Materials

Tnpsc Group 2 Complete Syllabus : <https://goo.gl/fNSnMN>

Tnpsc Group 2 Previous Questions : <https://goo.gl/PYqsd7>

Tnpsc Group 2 Model Questions : <https://goo.gl/xQvyTk>

7. Types of Energy

1. Why do we need energy?

We need energy to perform both mental and physical activities like thinking, reading, analysing, running, walking, cycling, climbing, playing and jumping.

2. Where from the energy did the vehicles get from?

The bus, the boat and the helicopter get the energy to run from fuel

3. Define Energy.

Energy as the capacity or ability to do work. The unit of energy is joule.

4. What are the Types of Energy ?

There are many different types of energy. Some of them are:

- Mechanical energy
- chemical energy
- light energy
- sound energy
- electrical energy
- heat energy

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- wind energy.

5. What is Mechanical Energy?

Mechanical energy is the energy possessed by an object due to its movement or position.

6. What are the types of Mechanical Energy?

There are two types of mechanical energy.

- Potential energy
- Kinetic energy.

7. What is meant by Potential Energy?

The energy possessed by an object by virtue of its position or configuration is called potential energy.

8. What is meant by Kinetic energy?

The energy possessed by a body by virtue of its motion is called kinetic energy.

9. How do Hydro power stations generate Electricity?

Potential energy and kinetic energy are inter convertible. This property is used to generate electricity in

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hydro-electric power stations.

10. What is the process of generating electricity?

When water is stored in a dam, the stored water contains potential energy. When this water is allowed to flow down, it changes into kinetic energy. This kinetic energy of water is used to rotate the turbines and generate electricity.

11. What are the uses of Mechanical Energy?

Uses:

- i) Mechanical energy can bring a moving body to rest or can make a body at rest to move.
- ii) Using wind energy, we can generate electricity through windmills.

12. What is Mean by Chemical Energy?

Energy that is stored in the bonds of chemical compounds is called chemical energy. Chemical energy is released during a chemical reaction, often in the form of heat and light.

13. Which energy is used enable us to work?

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The food we eat undergoes chemical reaction and releases energy to enable us to work

14. What are the uses of chemical energy?

Uses:

1. The chemical energy stored in the food of plants and animals is used for their growth and function.
2. A battery or an electric cell converts chemical energy into electrical energy.
3. While using fuels, chemical energy is converted into heat energy and light energy.

15. What is Electrical Energy?

In an electric bulb, electrical energy is converted into light energy and in an electric fan, electrical energy is converted into mechanical energy. In a windmill, the wind energy (kinetic energy) is converted into electrical energy.

16. What are the Uses of Electrical Energy?

1. In industries, electrical energy is used to operate machines and is also used in telecommunication.

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2. In cities, electrical energy is used to run electric trains.

17. How was the Heat energy is formed?

The chemical energy stored in wood, kerosene and LPG is converted into heat energy. Due to friction and chemical reaction, heat energy is produced.

18. List out the uses of Heat energy?

Uses:

1. We get rain due to evaporation of water from water bodies. It is because of the heat energy from the sun.

2. In a thermal power station, of electricity is generated from the heat energy obtained by burning coal. 3. In an electric stove, electric iron etc., electrical energy is converted into heat energy.

19. From where do we have Solar Energy?

The energy obtained from the sun is called solar energy.

20. What are the uses of solar energy?

Uses:

1. Solar energy is directly used in solar heater, solar cooker etc.,

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2. Solar cells are used in artificial satellites, watches, calculators and is used to operate solar vehicles.

21. Which energy is converted to produce electricity in Neyveli and Ennore, Thermal Power Station?

In Tamilnadu, at Neyveli and Ennore, thermal power stations, coal is burnt to generate electricity. Here the chemical energy of coal is first converted into heat energy and then into electrical energy.

22. How do the Loud Speaker Works?

The loudspeaker converts electrical energy into sound energy

23. How do the Plants convert Energy?

During photosynthesis, plants convert light energy from the sun into chemical energy and store it.

24. Give some Examples for electrical energy into sound Energy?

In electric doorbells and horns of automobiles, electrical energy is converted into sound energy.

25. How does the Torch Light Work?

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In a torch light, the chemical energy of the cell is first converted into electrical energy and then into light energy.

26. Define the Law of Conservation of Energy?

Energy can neither be created nor be destroyed, but can be transformed from one form into another. This is called the Law of Conservation of Energy.

27. how energy conversion takes place, when an electric motor pumps water?

To operate the electric motor, electrical energy is used. This electrical energy is converted into kinetic energy, sound energy and heat energy.

Electrical energy \rightarrow Kinetic energy + Sound energy + Heat energy (To operate the (to lift water) (released when electric motor works) electric motor).



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