**1. A body of mass 1kg is attracted by the earth with a force which is equal to**

A. 9.8N

B. 6.67x 1011

C. 1 N

D. 9.8m/s

A

**2. Which is the most popular kitchen fuel in India?**

A. LPG

B. Kerosene

C. Coal

D. Firewood

A

**3. Which method is used to produce electricity in hydroelectric power plant?**

A. By boiling the water to produce steam

B. By ionizing water

C. By running dynamo by kinetic energy

D. Any of these

C

**4. Which of the given is the odd one out?**

A. Petroleum

B. Hydro electricity

C. Coal

D. CNG

B

**5. Which method is used to produce electricity in thermal power plant?**

A. By heating chargeable cells

B. By boiling water

C. By pushing pistons by heat energy

D. Any of these

B

**6. Which of the given is a component of bio-gas?**

A. Methane

B. LPG

C. CNG

D. Hydrogen sulphide

**A**

**7. Which of the given produces energy because of temperature difference at various levels in ocean?**

A. Tidal energy

B. Wave energy

C. Solar energy

D. Ocean thermal energy

D

**8. Which energy source is the largest source used in India?**

A. CNG

B. LPG

C. Coal

D. Bio gas

B

**9. Which of the given is normally used in solar cookers for trapping solar energy?**

A. Solar panels

B. Silicon cells

C. Mirrors

D. Any of these

**C**

**10. In which of the given kinetic energy is converted into electrical energy?**

A. Tidal energy

B. Hydro energy

C. Wind energy

D. All of these

D

**11. Which of the given is the ultimate source of energy for us?**

A. LPG

B. Nuclear

C. Solar

D. CNG

C

**12. Which of the given is a non-renewable source of energy?**

A. Wood

B. Sun

C. Fossil fuels

D. Wind

C

**13. Acid rain happens because**

A. Sun leads to heating of upper layer of atmosphere

B. Burning of fossil fuels release oxides of carbon, nitrogen and sulphur in the atmosphere

C. Electrical charges are produced due to friction amongst clouds

D. The earth atmosphere contains acids

B

**14. Fuel used in thermal power plants is**

A. Water

B. Uranium

C. Biomass

D. Fossil fuels

D

**15. In a hydro power plant**

A. Potential energy possessed by stored water is converted into electricity

B. Kinetic energy possessed by stored water is converted into potential energy

C. Electricity is extracted from water

D. Water is converted into steam to produce electricity

A

**16. Which is the ultimate source of energy?**

A. Water

B. Sun

C. Uranium

D. Fossil fuels

B

**17. Which one of the given forms of energy leads to the least environmental pollution in the process of its harnessing and utilisation?**

A. Nuclear energy

B. Thermal energy

C. Solar energy

D. Geothermal energy

C

**18. Ocean thermal energy is due to**

A. Energy stored by waves in the ocean

B. Temperature difference at different levels in the ocean

C. Pessure difference at different levels in the ocean

D. Tides arising out in the ocean

B

**19. The major problem in harnessing nuclear energy is how to**

A. Split nuclei

B. Sustain the reaction

C. Disposal of spent fuel safely

D. Convert nuclear energy into electrical energy

C

**20. Which part of the solar cooker is responsible for greenhouse effect?**

A. Coating with black colour inside the box

B. Mirror

C. Glass sheet

D. Outer cover of the solar cooker

**C**

**21. The main constituent of biogas is**

A. Methane

B. Carbon dioxide

C. Hydrogen

D. Hydrogen sulphide

A

**22. The power generated in a windmill**

A. Is more in rainy season since, damp air would mean more air mass hitting the blades

B. Depends on the height of the tower

C. Depends on wind velocity

D. Can be increased by planting tall trees close to the tower

**C**

**23. Choose the correct statement**

A. Sun can be taken as an inexhaustible source of energy

B. There is infinite storage of fossil fuel inside the earth

C. Hydro and wind energy plants are non-polluting sources of energy

D. Waste from a nuclear power plant can be easily disposed off

**A**

**24. In a hydroelectric power plant more electrical power can be generated if water falls from a greater height because**

A. Its temperature increases

B. Larger amount of potential energy is converted into kinetic energy

C. The electricity content of water increases with height

D. More water molecules dissociate into ions

B

**25. Choose the incorrect statement.**

A. We are encouraged to plant more trees so as to ensure clean environment and also provide biomass fuel

B Gobar-gas is produced when crops, vegetable wastes etc., decompose in the absence of oxygen

C. The main ingredient of biogas is ethane and it gives a lot of smoke and also produces a lot of residual ash

D. Bio-mass is a renewable source of energy

C

**26. The largest component of biogas is**

A. Helium

B. Oxygen

C. Nitrogen

D. Methane

D

**27. The gaseous fuel which has the highest calorific value is**

A. Hydrogen

B. Methanen

C. LPG

D. Biogas

**A**

**28. Which of the given is not the characteristics of a good fuel is:**

A. Less calorific value

B. Easy to store and transport

C. Less residue after burning

D. All of these

A

**29. Thermal power plants uses……………….,……………And……………………………..to produce thermal electricity**.

A. Coal,Petroleum and natural gas

B. CNG, LPG and natural gas

C. Coal, CNG and non-natural gas

D. None of these

A

**30. Which of the given is not the conventional sources of energy**

A. Fossil fuels

B. Biomass

C. Solar energy

D. Vegetable wastes

C

**31. Solar energy is energy derived from**

A. Helium

B. Sun

C. Coal

D. Wave

B

**32. Fission of radioactive substances is known as**

A. Nuclear blast

B. Nuclear energy

C. Nucleolus energy

D. Source energy

B

**33. Geo-thermal energy is energy derived from:**

A. Hot spots under the earth

B. Cold spots above the earth

C. Hot spots above the earth

D. Cold spots under the earth

A

**34. Quality of fuel is measured by**

A. Calorific value

B. Combustion value

C. Initial value

D. None of these

**A**

**35. Acid rain is the result of:**

A. Sun leads to heating of upper layer of atmosphere

B. Burning of fossil fuels release oxides of carbon, nitrogen and sulphur in the atmosphere

C. Electrical charges are produced due to friction amongst clouds

D. Earth atmosphere contains acids

B

**36. Green house effect is caused by gases like**

A. Helium

B. Oxygen

C. Nitrogen

D. Carbon dioxide

D

**37. A solar water heater cannot be used to get hot water on**

A. A sunny day

B. A cloudy day

C. A hot day

D. A windy day

B

**38. Chief constituent of natural gas is:**

A. Methane

B. Ethane

C. Butane

D. Propane

A

**39. The power plant which converts potential energy of falling water into electricity is**

A. Nuclear plant

B. Thermal plant

C. Hydro power plant

D. Wind plant

**C**

**40. Most of the sources of energy that we use represent stored solar energy. Which of the given is not ultimately derived from the sun's energy?**

A. Geothermal energy

B. Wind energy

C. Fossil fuels

D. Bio-mass

**A**

**41. Wood is a……………………………..**

A. Primary fuel

B. Secondary fuel

C. Liquid fuel

D. Processed fuel

A

**42. Which of the given is not an example of a bio-mass energy source?**

A. Wood

B. Gobar-gas

C. Nuclear energy

D. Coal

C

**43. The popular name of bio gas is**

A. Gobar gas

B. Marsh gas

C. Ethane gas

D. Helium gas

A

**44. The country of winds is**

A. Indian

B. China

C. Denmark

D. Netherlands

C

**45. Which of the given is the ultimate source of energy?**

A. Water

B. Uranium

C. Sun

D. Fossil fuel

C

**46. Which of these is the most preferred fuel in urban kitchens?**

A. Firewood

B. Cowdung cake

C. Coal

D. LPG

**D**

**47. Which source of energy is the most used in India?**

A. Coal

B. Petroleum

C. Nuclear energy

D. Wind energy

B

**48. Which of these is used to run turbines in thermal power plants?**

A. Water

B. Coal

C. Steam

D. Ice

B

**49. Which state produces the largest amount of wind energy in India?**

A. Maharashtra

B. Karnataka

C. Punjab

D. Tamil nadu

D

**50. Which of these is a renewable source of energy?**

A. Solar energy

B. Hydel energy

C. Wind energy

D. All of these

D