

## **UNIT II**

1. Which of the following is considered as an alternate fuel?  
a) **CNG**                      b) Kerosene                      c) Coal                      d) Petrol
2. Solar radiation consists of  
a) UV                      b) Visible light                      c) Infrared                      **d) All of these**
3. Reduction in usage of fuels cannot be brought about by  
a) Using alternate fuels    b) Changing lifestyles    **c) Reducing car taxes**    d) Both a) & b)
4. Which of the following is a hazard of a nuclear power plant?  
a) Accident risk when tankers containing fuel cause spill  
**b) Radioactive waste of the power plant remains highly toxic for centuries**  
c) Release of toxic gases during processing  
d) All of these
5. The most important fuel used by nuclear power plant is  
**a) U – 235**    b) U- 238    c) U – 245    d) U – 248
6. Biogas is produced by  
**a) Microbial activity**    b) Harvesting crop    c) Both a) & b)    d) None of the above
7. Oil and Gas are preferred because of  
**a) Easy transportation**    b) Cheap    c) Strong smell    d) All of these
8. Biomass power generation uses  
a) Crops                      b) Animal dung                      c) Wood                      **d) All of these**
9. Chernobyl nuclear disaster occurred in the year  
a) 1984                      b) 1952                      **c) 1986**                      d) 1987
10. Which of the following is not a renewable source of energy?  
**a) Fossil fuels**    b) Solar energy    c) Tidal wave energy    d) Wind energy
11. Which of the following is a disadvantage of most of the renewable energy sources  
a) Highly polluting                      b) High waste disposal cost  
**c) Unreliable supply**                      d) High running cost
12. 'OTEC' is an energy technology that converts  
a. energy in large tides of ocean to generate electricity  
b. energy in ocean waves to generate electricity  
**c. energy in ocean due to thermal gradient to generate electricity**  
d. energy in the fast moving ocean currents to generate electricity
13. Which of the following source of energy is less ecofriendly?  
a) Biogas                      b) Wind                      c) Solar                      **d) Nuclear**
14. India's position in the Bio-gas plants globally

- a) 5<sup>th</sup>                      b) **2<sup>nd</sup>**                      c) 4<sup>th</sup>                      d) 7<sup>th</sup>
15. Solar energy is stored in  
a) **Carbon bonds**                      b) green leaves                      c) fossil fuels                      d) biomass
16. Which resources are inexhaustible?  
a) **Renewable**                      b) fossil fuel                      c) non renewable                      d) mineral
17. Identify the non-renewable source of energy from the following  
a) **Coal**                      b) Fuel cells                      c) Wind Power                      d) Wave power
18. Electromagnetic radiation can cause  
a) Plague                      b) Malaria                      c) **Cancer**                      d) Dengue Fever
19. Harnessing the wind energy is done by  
a) **Wind Mill**                      b) Ball mill                      c) Flour Mill                      d) Pig mill
20. Wind Farms are located in  
a) River basin                      b) Plain area                      c) **Hilly area**                      d) Valley area
21. Wind energy generation depends on  
a) Direction of wind                      b) **velocity of wind**                      c) humidity                      d) precipitation
22. With a minimum resource maximum energy can be created by  
a) Solar radiation                      b) wind                      c) **Nuclear fuels**                      d) tidal waves
23. Direct conversion of solar energy is attained by  
a) **Solar photo voltaic system**                      b) solar diesel hybrid system  
c) solar thermal system                      d) Solar air heater
24. In Hydropower plants power is generated by  
a) hot springs                      b) wind                      c) Sun                      d) **water**
25. Hydrogen energy can be tapped through  
a) heat pumps                      b) **fuel cells**                      c) photovoltaic cells                      d) gasifiers
26. Problems of Hydrogen fuel cell is  
a) **Storage and distribution**                      b) availability of hydrogen  
c) creates pollution                      d) None of the above
27. Nuclear power is being produced from  
a) Carbon-14                      b) **nuclear fission**                      c) petroleum combustion                      d) natural gas
28. Nuclear fusion uses the following as a fuel  
a) Carbon                      b) Helium                      c) **Hydrogen**                      d) water
29. Which is the source of energy that can be replaced at the same rate at which it is used?  
a) Coal                      b) petroleum                      c) Oil                      d) **Biomass**

30. Biomass consists of  
 a) Lignin                      b) Hemi cellulose      c) Cellulose                      **d) All of the above**
31. Which of the following is used as moderator in the nuclear reactor?  
 a) Hydrogen gas                      b) Helium gas                      c) Heavy water                      d) None of the above
32. Nuclear wastes is active for  
 a) 5 years                      b) 10 years                      c) 50 years                      **d) centuries**
33. Nuclear power plant in Karnataka is located at  
 a) Bhadravathi      b) Sandur                      c) Raichur                      **d) Kaiga**
34. Biomass energy in green plants is produced in presence of  
 a) Carbon dioxide      b) Water                      c) Sunlight                      **d) All of the above**
35. Fossil fuels are converted into energy by  
**a) Burning**                      b) cooling                      c) sublimation                      d) melting
36. Natural gas contains  
 a) Carbon dioxide      b) hydrogen                      **c) Methane**                      d) nitrogen
37. Which place in India the tidal energy has been experimented  
 a) Goa                      b) Karnataka                      **c) Kerala**                      d) Tamil Nadu
38. Highest producer of Oil and petroleum is  
**a) Middle East countries**      b) America                      c) China                      d) India
39. Cow Dung can be used  
 a) As Manure      b) for production of Bio gas      c) as fuel                      **d) all of the above**
40. The source of Electromagnetic radiation is  
**a) Sun**                      b) Wind                      c) Tide                      d) Water
41. Biogas is gaseous fuel composed mainly of  
**a) Methane and Carbon dioxide**                      b) methane and hydrogen sulphide  
 c) Methane and carbon monoxide                      d) none of the above
42. Molasses from sugar industry is used to generate  
 a) Biodiesel                      b) Hydrogen                      **c) Bioethanol**                      d) Biomethanol