

SOURCE OF ENERGY

Q.1) Bhakhra-Nangal hydel project is situated in the state of

- (A) Gujarat (B) Orissa
(C) Punjab (D) Karnataka

Q.2) CNG stands for

- (A) Common Natural Gas
(B) Controlled Natural Gas
(C) Compressed Natural Gas
(D) Compound Natural Gas

Q.3) To work properly, wind-electric generators need wind speeds of at least about

- (A) 1.5 km/h (B) 15 km/h
(C) 150 km/h (D) 1500 km/h

Q.4) Geothermal energy is feasible in regions that

- (A) are near the sea
(B) have thermal plants
(C) have coal mines
(D) are over hot spots in the crust

Q.5) Which of the following is not an example of a bio-mass energy source ?

- (A) wood (B) go-bar-gas
(C) nuclear energy (D) coal

Q.6) Biogas is a mixture of :

- (A) $\text{CO} + \text{H}_2 + \text{CH}_4$ (B) $\text{CO} + \text{H}_2$
(C) $\text{CO}_2 + \text{CH}_4 + \text{H}_2 + \text{H}_2\text{S}$ (D) $\text{CO}_2 + \text{N}_2$

Q.7) Energy available from the oceans is :

- (A) OTE (B) sea-waves energy
(C) tidal energy (D) all of the above

Q.8) The source of energy of the sun is :

- (A) Nuclear fission (B) Chemical reaction

(C) Nuclear fusion (D) None of these

Q.9) 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
(D) None of these

Q.10) A substance which produces a lot of heat on burning is called –

- (A) Oxidising agent (B) Biogas
(C) Biomass (D) Fuel

Q.11) Which part of the solar cooker is responsible for green house effect ?

- (A) Coating with black colour the box
(B) Mirror
(C) Glass sheet
(D) Outer cover of the solar cooker

Q.12) 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

Q.13) Choose the correct statement

- (A) Sun is 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.

Q.14) Biogas is mainly :

- (A) $\text{CH}_4 + \text{CO}_2$ (B) $\text{C}_2\text{H}_6 + \text{CO}_2$
(C) $\text{CH}_4 + \text{NO}_2$ (D) None of these
- Q.15)** To produce biogas in a biogas plant, we need :
(A) Oxygen but not water
(B) Water but not oxygen
(C) Oxygen and water
(D) neither oxygen nor water
- Q.16)** When steam is passed over hot coke, it produces
(A) producer gas (B) water gas
(C) laughing gas (D) coal gas
- Q.17)** India's uranium supply comes mainly from the Jaduguda mines in
(A) Jharkhand (B) Madhya Pradesh
(C) Maharashtra (D) none of these
- Q.18)** An atom bomb is based on the principle of
(A) nuclear fission
(B) nuclear fusion
(C) the liquid drop model
(D) none of these
- Q.19)** The fuel used in nuclear power plants is
(A) U-235 (B) U-238
(C) U-236 (D) enriched U-235
- Q.20)** Nuclear Fusion reaction happens spontaneously in
(A) The core of the earth
(B) The commercial nuclear reactor
(C) The atmosphere of the sun
(D) The eruption of a volcano
- Q.21)** The sun's energy is due to –
(A) The nuclear fission of hydrogen
(B) The nuclear fusion of hydrogen
(C) The natural combustion of hydrogen
(D) The nuclear fission uranium
- Q.22)** The fuel used in the nuclear reactor is
(A) cadmium (B) Radium
(C) uranium (D) Thorium
- Q.23)** India exploded her first underground nuclear device at –
(A) Kota (B) Ranchi
(C) Jaipur (D) Pokhran
- Q.24)** The maximum temperature that can be attained in a box type solar cooker is –
(A) 200°C (B) 140°C
(C) 80°C (D) 250°C
- Q.25)** Solar constant is –
(1) 140 Wm^{-2} (B) 1.4 Wm^{-2}
(C) 1.4 KWm^{-2} (D) 1.4 MWm^{-2}
- Q.26)** The solar constant at a place is 1.4 KW/m^2 . How much solar energy will be received at this place per second over an area of 5 m^2 .
(A) 7 KW (B) 6.5 KW
(C) 5 KW (D) 0.7 KW
- Q.27)** Solar constant is the amount of solar energy.
(A) Per second by on square meter area.
(B) Per hour by one square kilometer area.
(C) Per minute by on square meter area.
(D) Per second by on square kilometer area.
- Q.28)** Which of the following not used as a nuclear fuel ?
(A) Uranium (B) Thorium
(C) Plutonium (D) Titanium
- Q.29)** Discovery of neutron was made by
(A) Chadwick (B) Rutherford
(C) Becquerel (D) Curie
- Q.30)** A positron is
(A) ionised hydrogen atom
(B) ionised helium atom
(C) anti particle of electron having same mass but opposite and same quantity of charge as an electron
(D) None of these

Answer Sheet

Q.1	C	Q.11	C	Q.21	B
Q.2	C	Q.12	C	Q.22	C
Q.3	B	Q.13	C	Q.23	D
Q.4	D	Q.14	A	Q.24	B
Q.5	C	Q.15	B	Q.25	C
Q.6	C	Q.16	B	Q.26	A
Q.7	D	Q.17	A	Q.27	A
Q.8	C	Q.18	A	Q.28	D
Q.9	B	Q.19	D	Q.29	B
Q.10	D	Q.20	C	Q.30	D