

S No	Question	Answer
1	Wave energy utilizes a. Kinetic energy of water b. Potential energy of water c. Both (a) and (b) d. None of these	C
2	A highest point in a wave is its a. troughs b. crest c. wave length d. wave direction	B
3	Waves are caused indirectly by _____ a) Wind energy b) Solar energy c) Geo-thermal energy d) Wave energy	B
4	Which type of turbine is commonly used in tidal energy? a) Francis turbine b) Kaplan turbine c) Pelton wheel d) Gorlov turbine	B
5	Bio diesel is produced by the _____ of the vegetable oil.	transesterification
6	What are used to reduce the motion of floats? a) Back pressure b) Tubes c) Damping fins d) Anchor	C
7	Motion of water in a wave is primarily _____ a) Vertical b) Horizontal c) Linear d) Opposite	A
8	A _____ attached to the float moves up and down inside a cylinder. a) chain b) barrel c) piston d) load	C
9	The efficiency of the fuel cell is _____	80%
10	Photovoltaic energy is the conversion of sunlight into: a) Chemical energy b) Biogas c) Electricity d) Geothermal energy	C
11	The major constituent of the bio gas is _____	Methane
12	The term biomass most often refers to _____ a) Inorganic matter b) Organic matter c) Chemicals d) Ammonium compounds	B
13	Which one of the following is an example of starch crops biomass feed stocks? a) Sugar cane b) Wheat straw c) Corn stover d) Orchard prunings	A
14	Fixed dome biogas plant can also be called as _____	Constant volume
15	The voltage of the solar cell is _____	0.5 to 0.6 V
16	The aerobic digestion of sewage is used to produce _____ a) Biomass b) Bio fuels c) Synthetic fuels d) Metal articles	B
17	The electrolytic solution used in a hydrogen-oxygen fuel cell is _____ a) 75% KOH solution b) 25% KOH solution c) 75% NaOH solution d) 25% NaOH solution	B
18	A fuel cell, in order to produce electricity, burns: a) Helium b) Nitrogen c) Hydrogen d) None	C
19	Which of these is not a property of MHD power generation? a) has no moving part, so is reliable b) overall generation cost is less c) closed cycle has almost no pollution d) conversion is about 80-90%	D
20	Seeding material commonly used in MHD generator is _____	Cesium
21	Thermocouple is a _____ a) Primary device b) Secondary transducer c) Tertiary transducer d) None	A
22	Gasification of the biomass produces _____	Producer Gas
23	Which of these materials are not used for MHD duct walls? a) magnesium oxide b) strontium zirconate c) hafnia d) manganese zirconate	A
24	Which of the following is not an example of a fuel cell? a) Hydrogen-oxygen cell b) Methyl-oxygen-alcohol cell c) Propane-oxygen cell d) Hexanone-oxygen cell	D
25	Fuel cell converts chemical energy into _____	Electricity
26	Fuel cells are characterized by the _____ a) High efficiency b) High noise level c) Vibrations d) Heat transfer	A
27	Which of the following element is used as a thermocouple in nuclear reactor? a) Boron b) Platinum c) Copper d) Iron	A
28	The air at the entrance of MHD duct is seeded with potassium upto _____ a) 7% b) 5% c) 3% d) 1%	D

29	Sea wave can be assumed to be _____	Sinusiodal wave
30	The standard emf of the hydrogen-oxygen fuel cell is _____ a) 1.23 V b) 2.54 V c) 3.96 V d) 0.58 V	A
31	Formation of the Tide depends on _____	Lunar cycle
32	The bio ethanol is subjected to rectification to remove _____ a) Sugar b) Enzymes c) Yeast d) Impurities	D
33	In which wave machine instead of compressing air, the water itself is pressurized? a) High level reservoir wave machine b) Dolphin type wave generator c) Hydraulic accumulator d) Float wave power conversion device	C
34	The _____ is used as the agricultural fertilizer. a) Bio ethanol b) Bio ethane c) Bio methanol d) Digestate	D
35	Which of the following forestry materials can be used as biomass? a) Logging residues b) Tallow c) Fish oil d) Manure	A
36	The production of bio ethanol is by fermenting the _____ and starch components.	Sugar
37	The vegetable oil _____ times larger than the normal diesel molecule. a) 1 b) 2 c) 3 d) 4	C
38	The first diesel engine run on _____ a) Bio diesel b) Regular diesel c) Vegetable oil d) Petrol	C
39	Energy from gravitational field is energy obtained from A. wind b. biomass c. coal d. tides	D
40	What is major disadvantage of wave energy? a) It is not efficient enough b) It is available only in ocean c) The harnessing cost is more d) Unstable during high wind pressures	B