## MULTIPLE CHOICE

1.	wich wind turbine is stable?		
	a. Horizontal axis wind turbine	c.	Both A and B
	b. Vertical axis wind turbine	d.	None of the above
	ANS: A PTS: 1		
2.			
	The plants in which the process of converse electric energy takes place are known as	sion	of the kinetic energy of flowing water into
	a. thermal power plant	c.	biomass
	b. hydropower plant	d.	gobar gas
	ANS: B PTS: 1		
3.			
	The working of the dynamo and rotor a principle of	assei	mbly in power plants works on the
	a. Faraday's law of electromagnetic induction	c.	Magnetic effect of electric current
	b. Joule's heating effect	d.	none of these
	ANS: A PTS: 1		
4.	Which of the following statement is true	e abo	out conventional energy sources?
	a. They cause minimum pollution	c.	Coal is the most used conventional energy source in the world
	b. They are available in limited quantity	d.	There are sufficient reserves of Coal, Petroleum, and Natural gas for the next 300 years
	ANS: B PTS: 1		
5.			
	The plant where process heat energy the burning of fossil fuel is known as		

	a. tidal power plant	c.	thermal power plant
	b. hydropower plant	d.	geothermal power plant
	ANS: C PTS: 1		
6.	Bio-gas is also known as		
	a. LPG	C	Steam
	b. CNG	d.	Gobar-gas
	ANS: D PTS: 1		
7.			
	After complete decomposition in the generated.	biog	gas plant the gases like are
	a. Methane	c.	$H_2S$
	b. CO <sub>2</sub>	d.	all of these.
	ANS: D PTS: 1		
8.	which if the followling are the way	e ei	nergy converter devices
	a. Pitching type		Pitching and heaving type
	b. Heaving type	d.	All of the above
	ANS: D PTS: 1		
9.	The function of a solar collector is	to (	convert
	<ul><li>a. Solar Energy into Electricity</li><li>b. Solar Energy Radiation</li></ul>		Solar Energy thermal energy Solar Energy mechanical energy
	ANS: C PTS: 1		8,5
10.	Flat plate collector absorbs		
	a. Direct radiation only		Direct and diffuse both
	b. Diffuse radiation only	d.	All of the above
	ANS: C PTS: 1		
11.	A pyranometer is used for the mea	sur	ement of
	a. Direct radiation only		Direct as well as diffuse radiation
	b. Diffuse radiation only	d.	None of the above
	ANS: C PTS: 1		

12.	Most widely used solar material is	•••••	•••
	a. Arsenic		Silicon
	b. Cadmium	d.	Steel
	ANS: C PTS: 1		
13.	Photovoltaic cell or solar cell conv	erts	S
	a. Thermal energy into electricity	c.	Solar radiation into nuclear
			energy
	b. Photon energy directly into	d.	Solar radiation into kinetic
	electricity		energy
	ANS: B PTS: 1		
14.	Temperature attained by a flat-pla	ate	collector is of the
	a. Order of about 90°C		Above 150°C
	b. Range of $100^{\circ}$ C to $150^{\circ}$ C	d.	None of the above
	ANS: A PTS: 1		
15.	Thermionic converter utilizes	,	
	a. Thermionic emission effect	c.	Seebeck effect
	b. Peltier effect	d.	None of the above
	ANS: A PTS: 1		
16.	Thermo electric power generation	uti	lizes
	a. Thermionic emission effect	c.	Seebeck effect
	b. Thermal effect	d.	None of the above
	ANS: C PTS: 1		
17.	What is solar heating and cooling?	?	
	a. Use solar energy to regulate the		Use solar energy to
	internal temperature of a given		monotonically increase the
	space		internal temperature of a given
			space
	b. Use solar energy to regulate the	d.	Use solar energy to
	temperature of the environment		monotonically decrease the
			temperature of a given space
	ANS: A PTS: 1		
18.	The availability of Renewable ener		
	a. uncertain		high
	b. constant	d.	regular
	ANS: A PTS: 1		

19.	How many high tides occur even	cy day?
	a. One	c. Four
	b. Two	d. Three
	ANS: B PTS: 1	
20.	Which of the following are types conversion?	s of systems used in ocean thermal energy
	a. Horizontal and vertical	c. Open cycle and closed cycle
	b. Vertical and open cycle	d. Horizontal and closed cycle
	ANS: C PTS: 1	Tronzontar and Grosed Cycle
21.	turbine is used in close	d-cycle ocean thermal energy conversion.
	a. Horizontal	c. High-pressure
	b. Low-pressure	d. Vertical
	ANS: B PTS: 1	
22.	The wind is defined as	
22.	a. air blowing very fast	c. air blowing at a point
	b. air blowing very slow	d. still air
	ANS: C PTS: 1	
23.	Wind energy can be used to	
	a. generate electricity	c. draw underground water
	b. operate flour mills	d. all of the above
	ANS: D PTS: 1	
24.	What is the main source for the formati	on of wind?
	a. Uneven land	c. Vegetation
	b. Sun	d. Seasons
	ANS: B PTS: 1	
25.	Which of the following source of energy	y caused by uneven heating of earth's surface
	a. wind	c. biomass
	b. solar	d. geothermal
	ANS: B PTS: 1	
26.	Wind energy is harnessed as ene	rgy with the help of windmill or turbine.

	a. me	echanical			c.	electrical
	b. sol	ar			d.	heat
	ANS:	В	PTS:	1		
27.	a. Fra	type of turbir ancis turbine plan turbine	ne is co	ommonly used in	c.	al energy? Pelton wheel Gorlov turbine
	ANS:	В	PTS:	1		
28.	a. 22	actly how mu h, 20mi h, 50min	ich time	e does it take for	c.	e tidal cycle? 20h, 10min 22h, 50min
	ANS:	В	PTS:	1		
29.	duct is a. 25	open cycle Ml (in K)? 00-3000 00-2500	HD-ste	am power plant,	c.	temperature at the entrance of The HD 1500-2000 2250
	ANS:	A	PTS:	1		
30.	a. 7% b. 3%	, D	nce of		c.	ed with potassium up to 5% 1%
21					ا مایید	iah af tha fallawing gas is assalad in the
31.	MHD of a. helds. xei	duct? lium	HD-SIE	am power plant,	c.	ich of the following gas is seeded in the sodium vapour chlorine
	ANS:	A	PTS:	1		
32.	a. bla	e is the input of est furnace clear reactor	of the N	/IHD duct heated		a closed cycle MHD-steam power plant? reverberatory furnace combustion chamber
	ANS:	В	PTS:	1		
33.		tural gas	el bett	er than coal for u		kerosene
	ANS:	В	PTS:	1		
34.	a. Inc	rm biomass r organic matte ganic matter		ten refers to		Chemicals Ammonium compounds
	ANS:	В	PTS:	1		

35.	Biomass is useful to a. Chemicals b. Fibres	o produce	c. d.	Biochemicals Transportation fuels
	ANS: D	PTS: 1		
36.	The production of ba. Acid b. Milk	pioethanol is by ferment	c.	the and starch components. Sugar Alcohol
	ANS: C	PTS: 1		
37.	To make transport  a. Diesel  b. Petrol	fuel the bioethanol is bl	c.	- ··
	ANS: B	PTS: 1		
38.	a. Bioethanol b. Biomethane	d the biogas		Biodiesel Biobutanol
	ANS: B	PTS: 1		
39.	a. First law of The	nce is not limited by rmodynamics Thermodynamics	c.	Third law of Thermodynamics All three laws are applicable
	ANS: D	PTS: 1		
40.	For which of these the external circuit? a. MHD generator b. Thermionic gen	?	c.	ge carriers flow from anode to cathode in Thermoelectric generator Fuel cell
	ANS: D	PTS: 1		
41.	The fuel cell is consa. fuel only b. oxidizer  ANS: D	sidered a battery in which	c.	is continuously replaced. both fuel and oxidizer none of the mentioned
40				1
42.	a. Turbine	n wind energy into elec		Yaw motor
	b. Generators		d.	Blades
	ANS: A	PTS: 1		
43.	A solar cell converts a. Electrical energy		c.	Sound energy
	b. Thermal energy		d.	Heat energy
	ANS: A	PTS: 1		

44.	Series and parallel combination of the solar of a) b) c) a. Solar array	c.	Solar sight
	b. Solar light	d.	Solar eye
	ANS: A PTS: 1		
45.	Full form of BEL isa. Busy Electronics Limited b. Burden Electrical Limited	c. d.	
	ANS: C PTS: 1		
46.	Material used for making solar cell isa. Silicon b. Carbon	c. d.	Sodium Magnesium
	ANS: A PTS: 1		
47.	A solar cell is a a. P-type semiconductor b. N-type semiconductor		Intrinsic semiconductor P-N Junction
	ANS: D PTS: 1		
48.	How many types of Silicon solar cells? a. One b. Two	c. d.	Three Four
	ANS: C PTS: 1		
49.	In which collector the efficiency is maximum a. Flat Plate b. Line Focusing	c. d.	Evacuated Tube Paraboloid Dish
	ANS: D PTS: 1		
50.	Which cell is used to converts solar energy da. Dry cell b. Photoelectric cell	c.	
	ANS: B PTS: 1		
51.	The energy which is stored as latent heat is c a. Mechanical energy b. Electrical energy	alled a c. d.	
	ANS: C PTS: 1		
52.	The solar energy directly used fora. Drying b. Water heating	c. d.	Distillation All of the above
	ANS: D PTS: 1		
53.	radiation is called as a diffuse rad	liation	1

	<ul><li>a. Scattered solar radiation</li><li>b. Beam radiation</li></ul>		Infrared radiation None of the above
	ANS: A PTS: 1		
54.	From the sun the solar energy is radiated in that a. Electromagnetic waves b. Infrared waves		Transverse waves
	ANS: A PTS: 1		
55.	In solar cells material is used a. Copper b. Silver		Silicon None of the above
	ANS: C PTS: 1		
56.	The sun emits radiations a. Infrared b. Visible  ANS: D PTS: 1		Small amount of ultraviolet All of the above
57.	Visible radiations gives ene a. Light energy b. Heat energy	c.	Both a and b None of the above
	ANS: A PTS: 1		
58.	Infrared radiations givesen a. Light energy b. Heat energy  ANS: B PTS: 1	c.	Both a and b None of the above
59.	In how many ways we can harness solar ener a. One-way b. Two ways  ANS: B PTS: 1	c.	Three ways Four ways
60.	Plants convert solar energy intoa. Chemical energy b. Light energy	c.	ergy Heat energy None of the above
	ANS: A PTS: 1		
61.	Solar energy can leads to generate the electric a. Heat engines b. Photovoltaics  ANS: C PTS: 1	c.	rough Heat engines and Photovoltaics None of the above
62.	The solar energy is essentially useful ina. Solar thermal b. Solar photovoltaics	c. d.	contexts Solar thermal and Solar photovoltaics None of the above

	ANS: C	PTS:	1		
63.	The high temperature a. One b. Two	in the	concentrating sola	r tec c. d.	
	ANS: B	PTS:	1		
64.	Choose the odd one of a. Coal b. Petroleum	out		c. d.	Oil Biomass
	ANS: D	PTS:	1		
65.	What are the differenta. Direct method b. Indirect method ANS: C	t metho		c.	izations?  Both a and b  None of the above
			_	. 1	
66.	a. P - type b. N - type	r of the	semiconductor in		PNP - type All of the above
	ANS: A	PTS:	1		
67.	The efficiency achieva. 20-45% b. 20-40% ANS: C	ved from		lmos c. d.	19-24% None of the above
68.	The total efficiency of a. Receiver efficients. Generator efficients	ncy	olar thermal power	c.	t is divided into Both a and b None of the above
	ANS: C	PTS:	1		
69.	What is the source of a. Nuclear fusion b. Nuclear power part ANS: A		-	c. d.	Coal None of the above
70.	The top layer of the sa. Silicon b. Phosporous	emicon	ductor in the solar	cell c. d.	Silicon and phosphorous
	ANS: C	PTS:	1		
71.	<ul><li>a. Silicon</li><li>b. Boron</li></ul>			the s c. d.	Silicon and boron All of the above
	ANS: C	PTS:			
72.	What are the renewal	ole ener	gy sources of ener	gy?	

	<ul><li>a. Energy from wind, sun</li><li>b. Energy from flowing water, ocean waves</li></ul>	c. d.	7 I
	ANS: D PTS: 1		
73.	<ol> <li>What is hot molten rock called?</li> <li>Lava</li> <li>Magma</li> </ol>		Igneous rocks Volcano
	ANS: B PTS: 1		
74.	Which of the following categories does tida a. Hydrothermal b. Hydropower	c.	ower fall into? Solar Wind
	ANS: B PTS: 1		
75.	What is/are the cause(s) of tides?		
	a. Gravitational pull of moon	c.	Gravitational pull of sun and moon and rotation of earth
	b. Gravitational pull of moon and sun	d.	Gravitational pull of sun
	ANS: C PTS: 1		
76.	In terms of predictability, tidal energy	S	olar and wind.
	<ul><li>a. is more predictable than</li><li>b. has similar predictability like</li></ul>		is less predictable than cannot be predicted unlike
	ANS: A PTS: 1		
77.	What type of energy is wave energy?  a. Non – conventional	c.	Non – renewable
	b. Commercial	d.	Exhaustible
	ANS: A PTS: 1		
78.	Kinetic energy that results from the oscillation a. Wave energy b. Tidal energy	c.	vater is called Ocean thermal energy Hydro energy
	ANS: A PTS: 1		
79.	Earth's outer layer rock is called as		
	a. Mantle	c.	Outer core

	b. Crust	d.	Asthenosphere
	ANS: B PTS: 1		
80.	Geothermal energy is the thermal energy prese	nt	
	a. On the surface of the earth	c.	On the surface of the ocean
	b. In the interior of the earth	d.	None of the above
	ANS: B PTS: 1		
81.	Which of the following advantages of Geother	mal	Energy?
	a. Geothermal energy is relatively less expensive	c.	No fuel is burnt since heat is derived from an abundant underground reservoir
	b. It has no emissions and produces 10% carbon dioxide	d.	All of the above
	ANS: D PTS: 1		
82.			
	The term biomass most commonly refers to  a. Inorganic matter  b. Chemicals	c. d.	Ammonium compounds Organic matter
	ANS: D PTS: 1		
83.			
05.	The biogas is referred to as		
	a. Bio ethanol	c.	Bio butanol
	b. Biodiesel	d.	Bio methane
	ANS: D PTS: 1		
84.			
	The term "biomass" comes from the		
	a. Commercial source b. Demonyable arrangy recovered	c. d.	Non Renewable resources
	Renewable energy resources	u.	None of these
	ANS: B PTS: 1		
85.			
	What is biomass energy and how does it work?  a. Energy generated from wind	? c.	-
	Energy generated from wind	d.	Energy generate from ocean waves
	Energy generate from fiver	-	Energy generate from plant and animal
	ANS: D PTS: 1		

	The bio ethanol undergoes rectification i	n order to eliminate	
	a. <sub>Sugar</sub>	c. Enzymes	
	b. Impurities	d. Yeast	
	ANS: B PTS: 1		
87.			
	The by-products produced during bio eth	anol rectification are used as	
	a. Pig feed	c. Dog feed	
	b. Cow feed	d. Sheep feed	
	ANS: C PTS: 1		
88.			
	Bio ethanol is mixed with to genera	ate transportation fuel.	
	a. Diesel	c. Kerosene	
	b. Oil	d. Petrol	
	ANS: B PTS: 1		
89.			
	Which of the following issues arise with	the production of biomass?	
	a. High carbon dioxide emissions	c. Deforestation	
	b. Land degradation	d. All of the above	
	ANS: D PTS: 1		
90.			
	What is the minimum height of tides a. 1 foot	required for harnessing tidal energy economica c. 8 feet	ılly?
	b. 5 feet	d. 10 feet	
	ANS: D PTS: 1		
0.1			
91.	Tidal barrage is similar to		
	a. wind plant	c. wind turbines	
	b. dam	d. coal plant	
	ANS: B PTS: 1		
92.	What is a tidal stream?		
	a. A river streams	c. A fast-flowing body of water deposi	ted
	h A fact florida 1. 1 C 1	into ocean	
	b. A fast-flowing body of water due tides	to d. A fast-flowing body of water due to winds	

	ANS: B PTS: 1		
93.	Which device uses the float which h	nas two motions	?
	a. High level reservoir wave mach	nine c.	Hydraulic accumulator
	b. Dolphin type wave generator	d.	Float wave power conversion device
	ANS: B PTS: 1		
94.			
	In which wave machine instead of ca. High level reservoir wave mach		the water itself is pressurized? Hydraulic accumulator
	b. Dolphin type wave generator		Float wave power conversion device
	ANS: C PTS: 1		
95.	In dry steam hydrothermal plant, we	e use	
	a. Carnot cycle	c.	Rankine Cycle
	b. Brayton cycle	d.	None of the above
	ANS: C PTS: 1		
96.	How many basins does a single poo	ol tidal system h	ave?
	a. 1 b. 2	c. d.	-
	ANS: A PTS: 1	u.	7
07		atal tidal mayyan	that is concreted throughout the world?
97.	a. 2.4 X 106 MW	-	that is generated throughout the world? 4.9 X 106 MW
	b. 8.3 X 106 MW	d.	12 X 106 MW
	ANS: A PTS: 1		
98.	How many high peaks occur in a s	ingle pool tidal	system?
	a. 1 b. 2	c. d.	
	ANS: B PTS: 1	u.	•
99.	What happens if the turbine generat a. Resulting work is reduced		and operate much longer? Less power loss
	b. High power generation	d.	Less sound is created
	ANS: A PTS: 1		
100.	1 3	-	
	a. Barrage	c.	Reservoir

	b. Tidal fluctuation	d. Gravitational force
	ANS: B PTS: 1	
101.	How much must be the tidal range of a. 7 meters	ver barrage to be feasible? c. 10 meters
	b. 25 meters	d. 20 meters
	ANS: A PTS: 1	
102.	Any location where the fresh water a. Dredging	neets salty water is called c. Delta
	b. River	d. Estuary
	ANS: D PTS: 1	
103.		o high tides and two low tides of approximately equal size
	occur? a. Diurnal tide	c. Neap tide
	b. Spring tide	d. Semi-Diurnal tide
	ANS: D PTS: 1	
104.	Difference between water height at a. Tidal Variation	high tide and water height at low tide is called c. Tidal Range
	b. Tidal volume	d. Tidal Current
	ANS: C PTS: 1	
105.	What is the movement of water generalled?	erated by or associated with the change in mean sea level
	a. Tidal Variation	c. Tidal Range
	b. Tidal volume	d. Tidal Current
	ANS: D PTS: 1	
106.	What is the movement of water awa a. Flood tide	y from the shore called? c. Ebb tide
	b. Spring tide	d. Neap tide
	ANS: C PTS: 1	
107.	What is the term used for transport of	of non-cohesive sediments?

	b. Flick	d.	Droplet drift
	ANS: C PTS: 1		
108.	What is ocean thermal energy conversion?  a. Harnessing the temperature differences between surface waters and deep ocean waters	c.	Harnessing the heat energy from the underwater volcanoes
	b. Harnessing the temperature differences between the coastal waters and deep ocea waters		Harnessing the heat energy between surface water vapour and atmospheric gases
	ANS: A PTS: 1		
109.	What is the temperature difference used in occ Fahrenheit	ean th	ermal energy conversion? Note that F denotes
	a. 10 degree F	c.	Between 50 and 60 degree F
	b. A minimum of 77 degree F	d.	A minimum of 100 degree F
	ANS: B PTS: 1		
110.	What is thermohaline circulation?  a. Circulation of halogens throughout the ocean	c.	Large scale ocean circulation driven by global density gradients
	b. Circulation of halogens due to temperatur differences throughout the ocean	e d.	Large scale halogens circulation due to global density gradients
	ANS: C PTS: 1		
111.	What is the maximum estimated potential of ca. 80 GWh		
	b. 900 MWh	d.	88000 TWh
	ANS: D PTS: 1		
112.	How does the cold and denser water masses a. Thermohaline circulation		o the depths of ocean?  Density gradient
	b. Temperature gradient	d.	Freshwater fluxes
	ANS: A PTS: 1		
113.	Why is ocean thermal energy conversion a rera. Because the temperature gradient lasts for a short period of time		

c. Littoral drift

a. Dirt drop

	b. Because the upwelling of cold water f the deep ocean is replaced by downwelling of surface waters	rom d. Because of sun's heat	
	ANS: B PTS: 1		
114.	Which of the following are types of systema. Horizontal and vertical	ns used in ocean thermal energy conversion?  c. Open cycle and closed cycle	
	b. Vertical and open cycle	d. Horizontal and closed cycle	
	ANS: C PTS: 1		
115.	Which of the following is used as working systems?	g fluid in closed cycle oceanic thermal energy conversi	on
	a. Thermohaline circulation	c. Greenhouse gases	
	b. Temperature gradient	d. Refrigerants	
	ANS: D PTS: 1		
116.	Which of the followling cycle is the most conversion.	commonly used heat cycle for ocean thermal energy	
	a. Rankine cycle b. Bryton Cycle	<ul><li>c. Carnot cycle</li><li>d. Atkinson cycle</li></ul>	
	ANS: A PTS: 1		
117.	turbine is used in closed cycle of a. Horizontal	ean thermal energy conversion. c. High-pressure	
	b. Low-pressure	d. Vertical	
	ANS: B PTS: 1		
118.	Open cycle ocean thermal energy convers a. vapour from rivers	ion systems use as the working fluid. c. vapour from seawater	
	b. water from rivers	d. seawater	
	ANS: C PTS: 1		
119.	What is the byproduct of an ocean therma a. Electricity	l energy conversion system? c. Water vapour	
	b. Clean water	d. Cold water	
	ANS: D PTS: 1		

120.	Where is the world's only operating ocean the a. Japan		l energy conversion plant located? China
	b. United States	d.	Korea
	ANS: A PTS: 1		
121.	Which of the following best describes the work  a. Oceanic water? evaporator? turbine/generator? electricity		of an ocean thermal energy conversion plant? Cold surface oceanic water? electricity? evaporator containing working fluid? turbine/generator
	b. Warm surface oceanic water? evaporator containing working fluid? turbine/generator? electricity	d.	Cold deep oceanic water? electricity? evaporator containing working fluid? turbine/generator
	ANS: B PTS: 1		
122.	Which of the following is the correct equation hydroelectric power plant?	for t	he electrical power generated by the
	a. 75×0.736 wQH? Watt	c.	0.845 ×wQH? Watt
	b. $(7.5/0.736) \times \text{wQH? Watt}$	d.	9.81 ×wQH?
	ANS: C PTS: 1		
123.	Which of the following is not a requirement for a. Availability of water		e selection of hydroelectric power plant? Rocky land
	b. Large catchment area	d.	Sedimentation
	ANS: D PTS: 1		
124.	The amount of electrical energy that can be ge	nerat	ted by a hydroelectric power plant depends upon
	a. Head of water	c.	Specific weight of water
	b. Quantity of water	d.	Efficiency of Alternator
	ANS: B PTS: 1		
125.	Hydroelectric power plant isa. Non-renewable source of energy	c.	Non-conventional source of energy
	b. Conventional source of energy	d.	Continuous source of energy
	ANS: B PTS: 1		
126.	Hydroelectric power plant is mainly located i a. Flat areas	n	Deserts

	ANS: C PTS: 1		
127.	Which statement about hydroelectric power p  a. Efficiency of hydroelectric power plant does not reduce with age		is wrong? It is very neat and clean plant because no smoke or ash is produced.
	b. Its construction coast is very high and takes a long time for erection.	d.	Meeting rapidly changing load demands is not possible in hydroelectric power plant.
	ANS: D PTS: 1		
128.	Which of the following is not an advantage of a. no fuel requirement		roelectric power plant? continuous power source
	b. low running cost	d.	no standby losses
	ANS: C PTS: 1		
129.	Which of the following statement is true about a. Hydroelectric power plants are multipurpose	•	droelectric power plant? Hydroelectric power plant has high running cost
	b. Due to non-uniform flow of water frequency control in such plants is very difficult.	d.	Water is used as fuel in hydroelectric power plant
	ANS: A PTS: 1		
130.	Kinetic energy that results from the oscillation a. Wave energy	of w	
	b. Tidal energy	d.	Hydro energy
	ANS: A PTS: 1		
131.	How is height of wave determined?  a. By wind speed	c.	By a immersion scale
	b. By force of wave	d.	By a floating device
	ANS: A PTS: 1		
132.	What does oscillatory motion at ocean produce a. Microseisms	e? c.	Disturbance of currents
	b. Froth	d.	Currents

d. Hilly areas

Flat areas

	ANS: A PTS: 1		
133.	Waves are caused indirectly bya. Wind energy	c.	Geo-thermal energy
	b. Solar energy	d.	Wave energy
	ANS: B PTS: 1		
134.	What are used to reduce to reduce the motion of a. Back pressure		pats? Damping fins
	b. Tubes	d.	Anchor
	ANS: C PTS: 1		
135.	From what material is the float (platform) made	e of	
	a. Molded plastic	c.	Stainless steel
	b. Thermocole	d.	Tubes
	ANS: A PTS: 1		
136.	A attached to the float moves up and	dow	n inside a cylinder.
	a. chain	c.	piston
	b. barrel	d.	load
	ANS: C PTS: 1		
137.	What type of energy is wave energy?		
	a. Non – conventional	c.	Non – renewable
	b. Commercial	d.	Exhaustible
	ANS: A PTS: 1		
138.	What is major disadvantage of wave energy?		
	a. It is not efficient enough	c.	The harnessing cost is more
	b. It is available only in ocean	d.	Unstable during high wind pressures
	ANS: B PTS: 1		
139.	Motion of water in a wave is primarily		
	a. Vertical	c.	Linear
	b. Horizontal	d.	Opposite

	ANS: A PTS: 1		
140.	How many number of manifolds are part of a a. 1 b. 2	plat c. d.	3
	ANS: D PTS: 1		
141.	Which device uses the float which has two mo a. High level reservoir wave machine		s? Hydraulic accumulator
	b. Dolphin type wave generator	d.	Float wave power conversion device
	ANS: B PTS: 1		
142.	Fuel cell converts chemical energy to electrica a. eliminates combustion of fuel	l ene	
	b. requires combustion of fuel	d.	uel is not required
	ANS: A PTS: 1		
143.	Fuel cell performance is not limited bya. First law of Thermodynamics	c.	Third law of Thermodynamics
	b. Second law of Thermodynamics	d.	All three laws are applicable
	ANS: B PTS: 1		
144.	For which of these devices does negative charge external circuit?	ge ca	arriers flow from anode to cathode in the
	a. MHD generator	c.	Thermoelectric generator
	b. Thermionic generator	d.	Fuel cell
	ANS: D PTS: 1		
145.	The fuel cell is considered a battery in which _a. fuel only	c.	
	b. oxidizer	d.	none of the mentioned
	ANS: C PTS: 1		
146.	The type of reactions in a fuel cell is not determate. fuel and oxidizer combination	nine c.	ed by materials of anode and cathode
	b. composition of electrolyte	d.	catalytic effects of reaction container
	ANS: D PTS: 1		

147.	What is the voltage of a1.23	utput of hydrogen-oxyger		l cell?(in V) -1.01
	b1.45		d.	93
	ANS: A	PTS: 1		
148.	What is the voltage of a91	utput of carbon-oxygen fu	uel c c.	ell?(in V) -1.02
	b1.24		d.	-1.17
	ANS: C	PTS: 1		
149.	Which of these gases a. C2H6	or liquids are not used as		rce of hydrogen in fuel cells? C6H6
	b. C2H2		d.	С2Н5ОН
	ANS: D	PTS: 1		
150.	The hydrocarbons cra a. CO	acked with steam in fuel c		do not give rise to H2
	b. CO2		d.	H2O
	ANS: D	PTS: 1		