001.	Wha	t are the two primary processes under			C
	Α	Photosynthesis and respiration	В	Photosynthesis and photovoltaic	
	С	Anaerobic digestion and fermentation	D	Anaerobic digestion and	
				photosynthesis	
002.	Wha	t is anaerobic digestion?			В
	Α	Produces biogas by heating the	В	Produces biogas using micro-	
		biomass		organisms operating in anaerobic	
				conditions	
	С	Produces biogas by subjecting the	D	Produces biogas using micro-	
		biomass to high pressures		organisms operating in aerobic	
		• .		conditions	
003.	Whic	ch of the following is not a biomass reso	ource	?	D
	Α	Animal wastes	В	Forestry residue	
	С	Agricultural residue	D	Sunlight	
004.	Whic	ch of the following can be classified und	der so	olid biomass?	Α
	Α	Agricultural residues	В	Waste water	
	С	Industrial effluents into rivers	D	Plastic	
005.	Whic	ch of the following found in municipal w	aste (	can be used as biomass?	В
	Α	Agricultural residue	В	Kitchen waste	
	С	Residential garbage	D	Plastic covers	
006.	Whi	ch of the following products of anaerobi	c dia		D
		ents?		3	
	Α	Biogas	В	Chlorine	
	С	Top soil	D	Bio-fertilizer	
007.		ch of the following is best suited to deco	oamo		С
	Α	Anerobic digestion	В	Fermentation	_
	С	Thermo-chemical conversion	D	Bio-chemical conversion techniques	
		techniques			
008.	Whi	ch of the following are considered as co	ntam	inant gases in biogas?	С
	Α	Chlorine	В	Fluorine	
	С	Nitrogen, hydrogen and carbon	D	Methane gas and carbon dioxide	
		monoxide		momano gao ama cambon anomico	
009.	Wha	t are the two main products of anaerob	ic die	estion?	Α
	Α	Biogas and bio-fertilizer	В	Waste water	
	С	Producer gas	D	Syngas	
010.		ch of the following organic compounds		• •	В
	Α	Butane gas and carbon dioxide	В	Methane gas and carbon dioxide	
	С	Nitrogen	D	Sodium	
011.		ch of the following best indicates photos	svnth		В
	Α	Carbon dioxide + water oxygen +	В	$6CO_2 + 6H_2O C_6H_{12}O_6 + 6O_2$ (in the	
		glucose		presence of sunlight)	
	С	Carbon dioxide + water glucose +	D	Oxygen + glucose carbon dioxide +	
		oxygen (in the presence of sunlight)		water	
012.	Whi	ch of the following are photoautotrophs	?	nate.	Α
•	Α	Cyanobacteria, algae, plants	В	Archaebacteria	
	C	Deer Deer	D	Tiger	
013.	_	ch of the following is produced apart fro	_	•	С
		erobic digestion?	40		•
	A	Carbon monoxide	В	Charcoal	
	C	Carbon dioxide	D	Acetone	
014	_	ch of the following are types of pyrolysis	_	7.00.0110	Α
<b>∵ 1 →</b> .	A	Flash and ablative	B	Intermediate and anaerobic digestion	
	C	Anaerobic digestion and fermentation		Fermentation and intermediate	
015	_				D
J 1 J.	15. What occurs in the hydrolysis step of anaerobic digestion? D				

	Α	Large polymers combine with water molecules	В	Large polymers break down to form water molecules	
	С	Small polymers combine to form large polymers with the help of water	D	Large polymers break down into amino acids, fatty acids and simple	
		molecules		sugars	
016.	What	t is cellulose made up of?			Α
	Α	Polysaccharide	В	Steel	
	С	Carbon nanofibre	D	Silicon	
017.	Hem	icellulose is a source of biomass accou	ınting	from 20% to 40% by	C
		volume	В	moles	
	С	weight	D	molarity	
018.		ture content can be calculated on two b	ases	s, namely	C
	Α	light and heavy	В	weighted and even	
	С	wet and dry	D	light and dry	
019.	Conv	version of usable sunlight energy into cl	hemio	•	В
		Red pigmentation	В	Green pigmentation	
	С	Orange pigmentation	D	Fruits	
020.	What	t is higher heating value?			Α
		Amount of energy available in the fuel	В	Total amount of energy available in	
		+ energy contained in water vapour in		the fuel - energy contained in water	
		the exhaust gases		vapour in the exhaust gases	
	С	Total amount of energy available in	D	Total amount of energy available in	
		the fuel * energy contained in water		the fuel	
		vapour in the exhaust gases			
021.	In a b	pio-chemical process, the solid residue	repre	esents present in biomass.	C
	Α	the quantity of biodegradable carbon		the quantity of biodegradable	
				potassium	
	С	the quantity of non-biodegradable carbon	D	the quantity of biodegradable sodium	
022.	Whic	h of the following is most impacted by	the bu	ulk-density of the biomass as-	D
		uced?		•	
	Α	Calorific value	В	Storage of the fuel after processing	
	С	Heating value	D	Transportation and fuel storage costs	
023.	Whic	h of the following is a problem for using	g bior	nass as a source of energy?	D
	Α	Less moisture content in the	В	Low calorific value	
		atmosphere during time of harvesting			
	С	Low intrinsic silica content	D	High moisture content in the	
				surroundings	
024.	Why	does burning biomass not add to green	hous		D
	Α	Because it is a clean source	В	Because it absorbs greenhouse	
				gases to burn	
	С	Because it releases the same amount	D	Because it releases greenhouse gas	
		of greenhouses gas as burning fossil		that was captured and converted into	
		fuel does		other forms during its growth	
025.	What	t are the two types of moisture content	in bic	mass?	Α
	Α	Intrinsic and extrinsic	В	Higher heating value and lower	
				heating value	
	С	Lower heating value and extrinsic	D	Higher heating value and intrinsic	
026.	What	t is the increase in temperature per kilo	mete	r starting from the crust?	В
	Α	15 degree Celsius	В	17 - 30 degree Celsius	
	С	100 degree Celsius	D	50 - 87 degree Celsius	
027.	What	t is the earths core made up of?			C
	Α	Gamma rays	В	Nitrogen	
	$\cap$	Iron	ח	Gold	

028.	How	is the heat inside earth restored?			Α
	Α	Radioactive decay of elements	В	Sun restores the heat	
	С	Hot steam is pumped into earth	D	Cosmic rays	
029.	How	does geothermal energy work?		•	C
	Α	Uses water from the earth	В	Uses potential energy	
	С	Uses heat from the core of earth	D	Uses heat from atmosphere	
030.	Whic	ch of the following do heat pumps use in	n geo	thermal energy?	D
	Α	Earths variable temperature	В	Variable electricity	
	С	Constant electricity	D	Earths constant temperature	
031.	Whic	ch of the following is the major drawbac	k of g	•	D
	Α	Low initial cost	В	Low carbon dioxide production	
	С	High carbon dioxide production	D	Extremely location specific	_
032.	_	ch of the following gases is released by			В
	A	Carbon dioxide	В	Sulphur	
	C	Iron	D	Steel	_
033.	_	ch of the following is the most probably			В
	A	Grasslands	В	Volcanoes	
004	C	Coasts	D	River beds	_
034.		initiated electricity generation from ged			В
	A	Indians	В	Italians	
005	C	Americans	D	Africans	
U <b>3</b> 5.		ch of the following is used to locate a ge	_		Α
	A	Drilling wells	B D	Reflection	
026	C	Seismograph	_	SONAR	Α
U36.	_	ch of the following affect the usage of he Temperature and depth of the source			A
	A C	·		Type of water and steam	
	C	Location of the site and depth of the source	D	Type of water and steam	
037	\//hic	ch temperature range is most suitable f	or dire	actly using the hydrothermal resource?	R
031.		that F stands for Fahrenheit.	or une	ectly using the hydrothermal resource:	ם
	A	100 - 150 degree F	В	50 - 60 degree F	
		-10090 degree F		-100 - 0 degree F	
038		t is/are the ingredient in hydrothermal r			С
000.	A	Water	В	Hot water	
	C	Hot water and steam	D	Steam and water	
039.	_	t are the types of geothermal energy re			Α
	Α	Hydrothermal, geo-pressurised	В	Hydrothermal, geo-pressurised	
		brines, hot dry rocks, magma	_	brines, hot dry rocks, sun	
	С	Biomass, geo-pressurised brines, hot	D	Wind, magma, geopressurised brines	
		dry rocks		hydrothermal	'
040.	Wha	t are the forms of geothermal energy?			В
	Α	Liquid and solid	В	Liquid and vapour	
	С	Solid and Bose-Einstein condensate	D	Plasma and liquid	
041.	Dry :	steam is dominated.		•	В
	Α	liquid	В	vapour	
	С	solid	D	plasma	
042.	Whic	ch of the following is also called as a fla	sh st	eam plant?	D
	Α	Low temperature hydrothermal	В	Dry steam	
		resource		-	
	С	Hydrogen	D	Hot water	
043.	Whic	ch of the following is a type of high temp	oeratı	ure geothermal resource?	A
	Α	Dry steam	В	Dry water	
	С	Wet steam	D	Water	
044.	Whic	ch of the following best indicates the ele	ectrici	ty generation from dry steam?	Α

A C Wha	Drilling well steam pipes generator Steam pipes drilling well generator	B D	Steam drilling well pipes generator Generator steam pipes drilling well	Α
A	Increased pressure in the geothermal	В	Increased temperature in the	^
<u> </u>		<b>D</b>		
C	•	D	•	
Wha	•	other	•	D
Α		В	Presence of steam	_
С	Presence of fluid	D	Lack of fluid permeability	
Deep		-		В
A				
_		_		_
_	_			С
	•		•	
_		_		Α
				^
C				
Whic		nniqu	1 0	В
		•	•	
Α	Condensation and hydrofracking	В	,	
С	•		•	
				В
			·	
	•	_	•	С
-			•	C
$\wedge$		D		
С	•	D	•	
	exposition		exposition	
Whic	ch of the following is a problem with a g	eothe	ermal resource?	Α
Λ.				
Α	Noise pollution	В	Low greenhouse gas emission	
С	Polluting water			•
C Wha	Polluting water tare deep hydrothermal systems?	B D	Low greenhouse gas emission Reversing damage to wildlife habitat	С
C Wha A	Polluting water t are deep hydrothermal systems? Hot dry rock	B D B	Low greenhouse gas emission Reversing damage to wildlife habitat Magma	С
C Wha	Polluting water tare deep hydrothermal systems?	B D	Low greenhouse gas emission Reversing damage to wildlife habitat Magma Impermeable and fluid saturated	С
C Wha A C	Polluting water t are deep hydrothermal systems? Hot dry rock Permeable and fluid saturated region	B D B D	Low greenhouse gas emission Reversing damage to wildlife habitat Magma Impermeable and fluid saturated region	
C Wha A C	Polluting water t are deep hydrothermal systems? Hot dry rock	B D B D	Low greenhouse gas emission Reversing damage to wildlife habitat  Magma Impermeable and fluid saturated region anic geothermal heat?	C D
C Wha A C	Polluting water tare deep hydrothermal systems? Hot dry rock Permeable and fluid saturated region the following is responsible for the	B D B D	Low greenhouse gas emission Reversing damage to wildlife habitat  Magma Impermeable and fluid saturated region anic geothermal heat? Hot dry rock	
C Wha A C Whice A C	Polluting water t are deep hydrothermal systems? Hot dry rock Permeable and fluid saturated region ch of the following is responsible for the Water	B D B D volca B D	Low greenhouse gas emission Reversing damage to wildlife habitat  Magma Impermeable and fluid saturated region anic geothermal heat? Hot dry rock Supercritical water	
C Wha A C Whice A C	Polluting water t are deep hydrothermal systems? Hot dry rock Permeable and fluid saturated region ch of the following is responsible for the Water Carbon dioxide ch of the following are geothermal provi	B D B D volca B D	Low greenhouse gas emission Reversing damage to wildlife habitat  Magma Impermeable and fluid saturated region anic geothermal heat? Hot dry rock Supercritical water	D
C Wha A C Whic A C Whic A	Polluting water t are deep hydrothermal systems? Hot dry rock Permeable and fluid saturated region ch of the following is responsible for the Water Carbon dioxide ch of the following are geothermal provi Telangana Manipur	B D B D volca B D nces	Low greenhouse gas emission Reversing damage to wildlife habitat  Magma Impermeable and fluid saturated region anic geothermal heat? Hot dry rock Supercritical water in India?	D D
C Wha A C Whice A C Whice A C	Polluting water t are deep hydrothermal systems? Hot dry rock Permeable and fluid saturated region ch of the following is responsible for the Water Carbon dioxide ch of the following are geothermal provi Telangana Manipur t is tidal power?	B D Volca B D nces B	Low greenhouse gas emission Reversing damage to wildlife habitat  Magma Impermeable and fluid saturated region anic geothermal heat? Hot dry rock Supercritical water in India? Coimbatore Godavari	D
C Wha A C Whice A C Whice A C Wha A	Polluting water t are deep hydrothermal systems? Hot dry rock Permeable and fluid saturated region the of the following is responsible for the Water Carbon dioxide the of the following are geothermal provice Telangana Manipur t is tidal power? Energy from tides	B D Volca B D nces B D	Low greenhouse gas emission Reversing damage to wildlife habitat  Magma Impermeable and fluid saturated region anic geothermal heat? Hot dry rock Supercritical water in India? Coimbatore Godavari  Energy from water	D D
C What A C Whice A C What A C C What A C C What A C C	Polluting water t are deep hydrothermal systems? Hot dry rock Permeable and fluid saturated region ch of the following is responsible for the Water Carbon dioxide ch of the following are geothermal provi Telangana Manipur t is tidal power? Energy from tides Energy from moon	B D B D volca B D nces B D	Low greenhouse gas emission Reversing damage to wildlife habitat  Magma Impermeable and fluid saturated region anic geothermal heat? Hot dry rock Supercritical water in India? Coimbatore Godavari  Energy from water Energy from sun	D D
C What A C Which A C What A C White A C	Polluting water t are deep hydrothermal systems? Hot dry rock Permeable and fluid saturated region ch of the following is responsible for the Water Carbon dioxide ch of the following are geothermal provi Telangana Manipur t is tidal power? Energy from tides Energy from moon t is the estimated potential for geotherr	B D Volca B D nces B D B D	Low greenhouse gas emission Reversing damage to wildlife habitat  Magma Impermeable and fluid saturated region anic geothermal heat? Hot dry rock Supercritical water in India? Coimbatore Godavari  Energy from water Energy from sun nergy in India?	D D
C What A C Whice A C What A C C What A C C What A C C	Polluting water t are deep hydrothermal systems? Hot dry rock Permeable and fluid saturated region ch of the following is responsible for the Water Carbon dioxide ch of the following are geothermal provi Telangana Manipur t is tidal power? Energy from tides Energy from moon t is the estimated potential for geothern 1000MW	B D B D volca B D nces B D	Low greenhouse gas emission Reversing damage to wildlife habitat  Magma Impermeable and fluid saturated region anic geothermal heat? Hot dry rock Supercritical water in India? Coimbatore Godavari  Energy from water Energy from sun nergy in India? 1MW	D D
C What A C C	Polluting water t are deep hydrothermal systems? Hot dry rock Permeable and fluid saturated region ch of the following is responsible for the Water Carbon dioxide ch of the following are geothermal provi Telangana Manipur t is tidal power? Energy from tides Energy from moon t is the estimated potential for geotherr 1000MW 10000MW	B D S VOICE B D S D S D S D S D S D S D S D S D S D	Low greenhouse gas emission Reversing damage to wildlife habitat  Magma Impermeable and fluid saturated region anic geothermal heat? Hot dry rock Supercritical water in India? Coimbatore Godavari  Energy from water Energy from sun nergy in India? 1MW 100MW	D D
C What A C C	Polluting water t are deep hydrothermal systems? Hot dry rock Permeable and fluid saturated region ch of the following is responsible for the Water Carbon dioxide ch of the following are geothermal provi Telangana Manipur t is tidal power? Energy from tides Energy from moon t is the estimated potential for geothern 1000MW	B D S VOICE B D S D S D S D S D S D S D S D S D S D	Low greenhouse gas emission Reversing damage to wildlife habitat  Magma Impermeable and fluid saturated region anic geothermal heat? Hot dry rock Supercritical water in India? Coimbatore Godavari  Energy from water Energy from sun nergy in India? 1MW 100MW	D D A
	C Wha A C Wha A C Wha A C Which A C Which A C Which A C Which A C C Why A C C Why A C C Why A C C C C C C C C C C C C C C C C C C	C Steam pipes drilling well generator What are geopressurised resources? A Increased pressure in the geothermal reservoir C Decreased temperature in the geothermal reservoir What is the similarity between enhanced ge A Magma C Presence of fluid Deep hydrothermal systems are found at a A 1km C 10km What is the difference between enhanced ge A Lack of fluid permeability C Presence of fluid What is hot dry rock geothermal resource of A Granite C Solid carbon dioxide Which of the following fracture creation tech geothermal resource? A Condensation and hydrofracking C Hydroshearing and distillation Which of the following gases are released be A Carbon C Sulphate Why do binary power plants emit less amou A Because they release steam into the atmosphere C Because they inject water back into the ground without any atmospheric exposition	C Steam pipes drilling well generator D What are geopressurised resources? A Increased pressure in the geothermal B reservoir C Decreased temperature in the geothermal reservoir What is the similarity between enhanced geother A Magma B C Presence of fluid D Deep hydrothermal systems are found at a depth A 1km B C 10km D What is the difference between enhanced geother A Lack of fluid permeability B C Presence of fluid D What is hot dry rock geothermal resource made A Granite B C Solid carbon dioxide D Which of the following fracture creation technique geothermal resource? A Condensation and hydrofracking B C Hydroshearing and distillation D Which of the following gases are released by a g A Carbon B C Sulphate D Why do binary power plants emit less amounts of A Because they release steam into the B atmosphere C Because they inject water back into D the ground without any atmospheric exposition	C Steam pipes drilling well generator What are geopressurised resources?  A Increased pressure in the geothermal B Increased temperature in the reservoir G Decreased temperature in the geothermal reservoir G Decreased pressure in the geothermal reservoir G Decreased Preservoir G Decreased preservoir G Decreased preservoir G Decreased Preservoir G Decreased of Standard Teservoir G Decreased Preservoir G Decreased Prese

060.	_	ch of the following is the most promising			В	
	A C	Sohana	B D	Puga valley Patna		
061		Gurgaon  The following best describes the w	_		С	
001.	. Which of the following best describes the working of a tidal barrage for an incoming tide?					
	A	Incoming tides generator barrage basin	В	Incoming tides basin generator barrage		
	С	Incoming tides barrage basin generator	D	Generator barrage basin incoming tides		
062.	Whic	ch of the following best describes the w	orking	g of tidal barrage for outgoing tides?	D	
	Α	Generator basin ocean outgoing tide	В	Generator ocean basin outgoing tide		
	С	Ocean generator basin outgoing tide	D	Outgoing tide generator basin ocean		
063.		barrage is similar to	_		В	
	A	wind plant	В	dam		
004	C	wind turbines	D	coal plant	^	
<b>0</b> 64.	_	t is/are the cause(s) of tides?	Ь	Crevitational multiple many and aug	С	
	A	Gravitational pull of moon	В	Gravitational pull of moon and sun		
	С	Gravitational pull of sun and moon and rotation of earth	D	Gravitational pull of sun		
065	In to	rms of predictability, tidal energy	colo	r and wind	Α	
005.	A	is more predictability, tidal energy is more predictable than	_ 301a B	is less predictable than	^	
	C	has similar predictability like	D	cannot be predicted unlike		
066.	_	t is the temperature difference used in		•	В	
000.		F denotes Fahrenheit	oooa.	Transmar energy conversion. Trate		
	A	10 degree F	В	A minimum of 77 degree F		
	C	Between 50 and 60 degree F	D	A minimum of 100 degree F		
067.		is ocean thermal energy conversion a		<del>_</del>	В	
	Α	Because the temperature gradient	В	Because the upwelling of cold water		
		lasts for a short period of time		from the deep ocean is replaced by		
		·		down welling of surface waters		
	С	Because ocean water is available in	D	Because of suns heat		
		plenty				
068.	Wha	t is ocean thermal energy conversion?			Α	
	Α	Harnessing the temperature	В	Harnessing the temperature		
		differences between surface waters		differences between the coastal		
	_	and deep ocean waters	_	waters and deep ocean waters		
	С	Harnessing the heat energy from the	D	Harnessing the heat energy between		
		underwater volcanoes		surface water vapour and		
000	\			atmospheric gases	_	
069.		t are the three ways to harness tidal er	B		D	
	Α	Tidal streams, tidal barrages and wind	Ь	Tidal barrages, wind and sun		
	С	Tidal lagoons, river streams and	D	Tidal lagoons, tidal streams and tidal		
	O	geothermal reservoirs	J	barrages		
070	Wha	t is a tidal stream?		barrages	В	
J. J.	A	A river streams	В	A fast-flowing body of water due to	_	
	, ,		ے	tides		
	С	A fast-flowing body of water	D	A fast-flowing body of water due to		
	-	deposited into ocean		winds		
071.	Ope	n cycle ocean thermal energy conversion	on sv		С	
	A	vapour from rivers	В	water from rivers	_	
	С	vapour from seawater	D	seawater		

072.	vvna	t is the byproduct of an ocean thermal	energ	•	D
	Α	Electricity	В	Clean water	
	С	Water vapour	D	Cold water	
073.		turbine is used in closed cycle oce	ean th	ermal energy conversion.	В
	Α	Horizontal	В	Low-pressure	
	С	High-pressure	D	Vertical	
074.	Whic	ch of the following are types of systems	used	d in ocean thermal energy conversion?	C
	Α	Horizontal and vertical	В	Vertical and open cycle	
	С	Open cycle and closed cycle	D	Horizontal and closed cycle	
075.	Whic	ch of the following is used as working flo	uid in	closed cycle oceanic thermal energy	D
		ersion systems?		,	
	Α	Thermohaline circulation	В	Temperature gradient	
	С	Greenhouse gases	D	Refrigerants	
076.	Whic	ch of the following best describes the op	oen-c	•	В
	Α	Warm surface seawater heat	В	Warm surface seawater low-pressure	!
		exchanger working fluid turbine		container turbine/generator	
	С	Deep seawater heat exchanger	D	Deep seawater low-pressure	
		working fluid turbine	_	container turbine/generator	
077.	Why	does an open-cycle OTEC use low-pre	essur		С
•	A	To solidify the warm surface seawater			
	C	To boil and evaporate the warm	D	To solidify the warm surface seawater	
	•	surface seawater		To beliany the warm canade coawater	
078	Wha	t is the warm surface seawater pumper	d thro	augh in a closed-cycle ocean thermal	В
070.		gy conversion (OTEC) system?	a tillo	agri iri a diodea dydie decari irierinai	
	A	Heat compressor	В	Heat exchanger	
	C	Fluid compressor	D	Turbine	
079		th of the following best describes the w	_		В
010.		ersion plant?	OTTAIL	g of all occur thermal energy	
	A	Oceanic water evaporator	В	Warm surface oceanic water	
	, ,	turbine/generator electricity		evaporator containing working fluid	
		tarbino/generator electricity		turbine/generator electricity	
	С	Cold surface oceanic water electricity	D	Cold deep oceanic water electricity	
	O	evaporator containing working fluid	D	evaporator containing working fluid	
		turbine/generator		turbine/generator	
ngn	\//ha	turbine/generator t type of working fluids do closed-cycle	0000		Α
000.		ems use?	UCE	in thermal energy conversion (OTEC)	^
	A	Low boiling point fluids at	В	High hailing point fluids at	
	^	atmospheric pressure	Ь	High boiling point fluids at atmospheric pressure	
	С	Low boiling point fluids at 100 bar	D	High boiling point fluids at 100 bar	
<b>0</b> 21		ch of the following is a good choice for			Α
001.	A	CFCs	workii B	Steam	A
	C		D		
ഹാ	_	Surface seawater	_	Deep seawater	В
UOZ.		ne vapour pressure of working fluid incr			D
	A	increases	В	decreases	
002	C	does not change	D D	first increases then decreases	_
UO3.	_	ch of the following best describes hybrid		<del>-</del> -	С
	Α	Warm surface seawater low-pressure	В	Deep seawater vacuum chamber	
		container turbine/generator		flash-evaporated steam vapourises	
	_	Managara and a second	_	ammonia turbine	
	С	Warm surface seawater vacuum	D	Deep seawater low-pressure	
		chamber flash-evaporated steam		container turbine/generator	
•••		vapourises ammonia turbine			_
084.		does open-cycle OTEC produce desal			Α
	Α	Because the vapourised surface	В	Because of the working fluid	

contaminants in the low-pressure container Because the warm surface seawater D Because of thermohaline circulation C is mixed with deep ocean water **085.** Where is the desalinized fresh water used? В Sent back into ocean В Used for irrigation and aquaculture Used to generate electricity Used to generate tides C D is continuously replaced. **086.** The fuel cell is considered a battery in which \_ C fuel only oxidizer C both fuel and oxidizer none of the mentioned **087.** The type of reactions in a fuel cell is not determined by \_ D fuel and oxidizer combination composition of electrolyte materials of anode and cathode catalytic effects of reaction container C D 088. For which of these devices does negative charge carriers flow from anode to cathode D in the external circuit? MHD generator В Thermionic generator C Thermoelectric generator D Fuel cell **089.** Fuel cell converts chemical energy to electrical energy using a reaction that Α Α В eliminates combustion of fuel requires combustion of fuel fuel is not required C requires no ignition of fuel D **090.** Fuel cell performance is not limited by \_ В First law of Thermodynamics В Second law of Thermodynamics Third law of Thermodynamics C D All three laws are applicable **091.** Which of these fuel cell operates at temperature below 100.C? C phosphoric fuel cell solid polymer electrolyte fuel cell Α В molten carbon fuel cell hydrogen-oxygen fuel cell D 092. Which of these fuel cells operates at high temperatures and pressures? C high temperature solid oxide fuel cell B alkaline fuel cell molten carbon fuel cell phosphoric acid fuel cell **093.** Which of these should not be a properties of fuel cell electrodes? D good electrical conductors highly resistant to corrosive В environment should perform charge separation take part in chemical reactions D **094.** What is the voltage output of hydrogen-oxygen fuel cell?(in V) Α Α -1.23-1.45 В C -1.01 -.93 D 095. Which of these gases or liquids are not used as source of hydrogen in fuel cells? D  $C_2H_6$ В  $C_2H_2$ C  $C_6H_6$ D C2H2OH 096. Air pollution in an MHD-steam power plant is caused due to the formation of which of Α the following compounds? oxides and hydroxides В chlorides and hydroxides oxides and carbonates carbonates and bicarbonates D 097. In closed cycle MHD-steam power plant, which of the following gas is seeded in the Α MHD duct? Α helium В xenon sodium vapour D chlorine C **098.** The air at the entrance of MHD duct is seeded with potasiumupto \_\_\_\_\_ D 7% 5% Α В C 3% D 1%

**099.** Which of these is the most promising power generation system?

Α

seawater leaves all the salts and

	Α	magnetohydrodynamic	В	thermoelectric	
	С	hydrogen	D	fuel cell	
100.	Whic	ch of these is a non-conventional type	of pov	wer generation without prime movers?	D
	Α	hydro power	В	thermal	
	С	nuclear	D	thermoelectric	