Reg. No.:					

Question Paper Code: 39303

B.E. / B.Tech. DEGREE EXAMINATION, DEC 2020

Elective

Electrical and Electronics Engineering

01UEE903 - NON-CONVENTIONAL ENERGY RESOURCES

(Regulation 2013)

Duration: 1.15 hrs				Maximum: 30 Marks			
		PART A - ($6 \times 1 = 6 \text{ Marks}$	s)			
		(Answer any six of	the following o	questions)			
1.	Extraction of miner	cal and metal form the		CO1- R			
	(a) Agriculture	(b) Transportation	(c) Mining	(d) Sustainable develo	pment		
2. The major cause for land degradation in our country is					CO1- R		
	(a) Soil erosion	(b) Pollution of so	oil (c) Water-	-logging (d) None	of the above		
3.	Which of the follow cooking time?	wing solar cookers is	the most efficie	ent and has the shortest	CO2- R		
	(a) Box cooker		(b) Parabo	lic cooker			
	(c) Panel cooker		(d) Cardboard type cooker				
4.	Common energy so	ource in Indian village	s is:		CO2- R		
	(a) Electricity	(b) Coal	(c) Sun	(d) Wood and ar	imal dung		
5.	The installed capac		CO3- R				
	(a) 8000 MW	(b) 1500 MW	(c) 6000 N	/W (d) 400	n MW		

(b) Potential energy of water

(d) None of these

CO₃-R

Tidal energy utilizes

(c) Both (a) and (b)

(a) Kinetic energy of water

7.	Energy sources that can be continually produced and have few negative side effects are known as:						
	(a) Renewable Energy	Sources	(b) Nonrenewable Energy Sources				
	(c) No such sources ex	ist	(d) Man Made Energy Sources				
8.	Boiling water reactor a	and pressurised water r	eactors are:	CO4- R			
	(a) Nuclear reactor	(b) Solar reactor	(c) OTEC	(d) Biogas re	eactor		
9.	As wave travels, intens	sity			CO5- R		
	(a) Increases	(b) Remains same	(c) Decreases	(d) Varies			
10.	Which of the following energy sources?	g is a disadvantage of 1	nost of the renewabl	e	CO5-R		
	(a) Highly polluting		(b) High waste di	sposal cost			
	(c) Unreliable supply		(d) High running	cost			
		PART – B (3 x 8=	= 24 Marks)				
	(Ans	swer any three of the	following questions)			
11.	Summarize differer the world.	nt reserves of energy re	esources and their po	otential achievem	nents in (8)		
12.	With suitable diagr	ram, explain the operat	tion of various types	s of solar water	heating (8)		
13.	•	g principle of wind en	<i>.</i>	· ·	List the (8)		
14.	With diagram expla	nin working of two stag	ge digestion process.		(8)		
15.	With diagram expla	in single basin tidal po	ower plant .		(8)		