210	)	210	210	210	210	210	
Regi	istra	ition No :					
Tota	l Nu	mber of Pages :	01			-	B.Tec
0.1.0		5	5 <sup>th</sup> Semester B	ack Examinati	on 2018-19		PEEL530
210	)	210		E ENERGY SY		210	
		E		E, ELECTRICAI me : 3 Hours	L, PLASTIC		
				ax Marks : 70			
			•	CODE : E602			
	A	Inswer Question		•	•		st.
210	)	ane ng 210	ures in the rig	ht hand margi	n maicate ma <sup>210</sup>	210	
Q1		Answer the follow	• •				(2 x 10)
	a) b)	What are primary a What are the gree					
	c)	What are the adva					
	ď)	Write down the eq			rind and power of	delivered by	
	e)	the wind. What are the major	or ecological argi	ıments in wind e	neray nower sy	stem?	
210	f)	What do understar	nd by solidity of	wind turbine?	210	210	
	g)	What are the limita				id evetom?	
	h) i)	Differentiate betwee What do you under			ia wilia PV Hybr	iu system?	
	j)	What are the main			•		
Q2	a)	Write short notes	on eneray conse	ervation and ener	av efficiency.		(5)
~-	b)	Explain the differe				stems.	(5)
210 <b>Q3</b>		Define the terms:	210	210	210 ad spill way	210	(5)
QJ	a) b)	What is the basic system?				olar heating	(5) (5)
Q4	a)	What is the import	ance of MDDT in	a a solar photo w	oltaic evetem?		(5)
Q.T	b)	Comment on the g		•	onaic system:		(5)
<b>0</b> 5	۵۱	Final the measure		d from the wind	M/b a t da vav sa	oon by Dot-	<b>(</b> E)
<b>Q5</b> <sub>210</sub>	) <b>a)</b>	Find the maximum power extracted from the wind. What do you mean by Betz limit from the available power density expression?					(5)
	b)	What is the basic			ond and a (pi) 7	7-bond?	(5)
Q6	a)	What is the main r		biodiesel to strai	ght vegetable oi	ls	(5)
	b)	(SVO) as fuel for diesel engines? What is biomass? What are the different resources used to extract biomass					(5)
	,	energy?					(-,
<b>Q7</b> <sup>210</sup>	)	Discuss about the	horizontal axis t	urbine (propeller	type) of wind e	nergy.	(10)
Q8		Write short answ	er on any TWO				(5 x 2)
QU	a)	Stand-Alone Solar	•	•			(O X 2)
	b)	hybrid energy syst					
	c) d)	Anaerobic Digestic Hybrid electric veh					
210	•	210	210	210	210	210	
- 10	-	0	0	- 10	-10	2:0	