JNTUH USED PAPER SEP-2020

Code No: 138GW **R16**

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
B. Tech IV Year II Semester Examinations, September - 2020
RENEWABLE ENERGY SOURCES
(Common to EEE, CSE)

Time: 2 Hours **Max. Marks: 75**

Answer any Five Questions
All Questions Carry Equal Marks
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1.a)	Discuss the global climate changes in India.	
b)	Explain the global and Indian energy scenario.	[8+7]
2.a)	Describe the CO_2 reduction potential of renewable energy.	
b)	Give the importance of renewable and non-renewable energy sources.	[8+7]
3.	Explain the procedure to estimate the average solar radiation.	[15]
4.	Describe thermal energy storage systems and their applications.	[15]
5.a)	Discuss the wind energy potential and potential measurement in India	
b)	Explain the factors influence for site selection of wind power generation.	[8+7]
6.a)	Describe the wind turbines characteristics and applications.	
b)	Explain the safety and environmental aspects for wind generation plants.	[7+8]
7.a)	What are the different factors which affect the size of the bio gas plants?	
b)	Describe the biomass energy programme in India.	[7+8]
8.a)	Explain the principle of tidal energy production and components of tidal power plant.	
b)	Discuss the typical OTEC plant salient features.	[7+8]

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