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Code No: 138GW

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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

B. Tech IV Year II Semester Examinations, December - 2020

AG AG AG AG AG AG AG A  
RENEWABLE ENERGY SOURCES  
(Common to CE, EEE, ME, ECE, CSE)

Time: 2 Hours

Max. Marks: 75

Answer any Five Questions  
All Questions Carry Equal Marks

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1. Explain the potential of renewable energy sources in India. [15]
2. Describe the concept of Hybrid systems. [15]
3. Explain the mechanism of photoconduction in a PV cell. [15]
4. Explain briefly about various parameters of solar energy reaching the earth surface. [15]
5. Explain the procedure of wind generation and control for electrical energy. [15]
6. Discuss the wind mill component design and their demand side management. [15]
7. Describe the process of bio-gas generation and factors affecting the generation of biogas. [15]
8. Explain the hybrid cycle operation of OTEC plant with a neat diagram. [15]

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