R09

Code No: D6401

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD M.Tech II - Semester Examinations, March 2011 RENEWABLE ENERGY RESOURCES (POWER ENGINEEEING AND ENERGY SYSTEMS)

Time: 3hours Max. Marks: 60

Answer any five questions All questions carry equal marks

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1.	Determine the efficiency of flat plate solar collector and also explain. Very methods to improve the efficiency of flat plate solar collector at high temperature.	eratures?
		[12]
2.	Explain active and passive solar systems?	[12]
3.	Prove that the torque produced by a wind turbine rotor of radius R can be as $~\Gamma=(\pi/2)C_pR^3u_0^2/\lambda$	expressed [12]
4.	Explain HAWT and VAWT?	[12]
5.	Explain anaerobic digestion for biogas?	[12]
6.	Explain the principle and environmental impacts of OTEC?	[12]
7.	Explain briefly causes of tides?	[12]
8.	Explain how thermal power is estimated?	[12]
