

DR. BABASAHEB AMBEDINININ FÜCTRƏNKRI GRÜAL UNIVENNIF İŞERƏNKRIECOM

Midsemester – October 2019

Course: B. Tech in Civil and Mechanical Engineering Sem: I

Subject Name: Energy and Environmental Engineering Subject Code: BTES105

Max Marks: 20 Date: - 09/10/2019 Duration: - 1 Hr.

Instructions to the Students:

1. Assumptions made should be clearly mentioned.

2. All the questions are compulsory.

		(Level/CO)	Marks
Q. 1	Solve all the questions:		6
	1. PV cell gets energy fromin light.	CO2	
	a) Positrons b) Photons c) Neutrons d) Protons		
	2. Steam is converted to water in	CO1	
	a) Condenser b) Combustor c) Boiler d) Turbine		
	3. Thermoelectric generators working is based on	CO3	
	a) Seeback effect b) Gravity effect c) Pressure effect d) Surface effect		
	4. Compressor in gas turbine power plant is driven by	CO1	
	a) Motor b) Combustor c) Boiler d) Turbine		
	5. Which of the following is not a renewable energy source?	CO2	
	a) OTEC b) Sun c) Coal d) Biomass		
	6. Reaction that happens during preparation of biogas is	CO2	
	a) Aerobic b) Anaerobic c) Fusion d) Fission		
Q.2	Solve Any Two of the following.		3 X 2
(A)	Write a short note on Solar Energy collectors.	CO2	
(B)	Explain the role of Boiler in steam power plant.	CO1	
(C)	Write a short note on Geothermal Power.	CO2	
Q. 3	Solve Any One of the following.		8
(A)	What is Biogas? Explain the generation and advantages of Biogas with suitable	CO2	
	diagram.		
(B)	${\bf Explain\ Hydroelectric\ power-plant\ in\ detail\ with\ suitable\ diagram,\ working\ ,}$	CO1	
	advantages and disadvantages.	7	

*** End ***

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