DR. BABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY, LONERE

End Semester Examination – Winter 2018

Course: B. Tech.

Semeste

Subject Name: Energy and Environmental Engineering			Subject Code: El El 20	
Max Max	arks: 60 Date:	15/12/2018	Duration:	
1. 2. 3.	ions to the Students: All the questions are compulsory. The level question/expected answer as per OBE or the mentioned in () in front of the question. Use of non-programmable scientific calculators is allow	wed.	hich the question is b	ica is
4.	Assume suitable data wherever necessary and mention	it cieariy.	(Level/CO)	Mak
Q. 1	Solve Any Two of the following.			
A)	Explain with a neat sketch how the nuclear electricity. Label all the major parts of the pla		Understand/002	6
B)	are the advantages and disadvantages of using	g energy from water?		
C)	Explain the working of gas turbine based posterior sketch.	ower plant with a neat	Understand/CO2	6
Q.2	Solve Any Two of the following.			
A)	With a neat sketch explain the working of Ma Generator.	agneto Hydro Dynamics	Understand/CO2	
B)	Mention some organic materials used in bio-revarious sources of bio-mass.	nass plant. Describe the	Understand/(02	
(C)	i) Differentiate between the power general and the wind energy.	tion using solar energy	Understand/(03	
	ii) Compare the advantages of diesel based	d power over the coal	Understand/(03	
	based power generation.			
Q. 3	Solve Any one of the following.			
A)	Define energy conservation and energy efficient measures that are taken to reduce the energy correfrigerator.	·		
B)	What do you mean by energy star rating? Disc	uss how do you improve	Remember/C01	
	the energy conservation during shopping and tra			
Q.4	Solve Any Two of the following.			
A	What are the major indoor pollutants? Windoor pollutants come from? Formalde Asbestos, Molds. How can you prevent or con	ehyde, Radon, Smoke,		

B)	What are the six criteria pollutants in the original clean air act? Why are they chosen? List several illnesses that are caused by the dirty air.		
C)	What is particulate matter? What are the control measures to be taken to minimize the air pollution in respect of particulate matter? Discuss the effect of above on human health.	J S S S S S S S S S S S S S S S S S S S	
Q. 5	Solve the following.		
A)	Define the term soil pollution. Explain in brief the sources of soil pollution.	Understand/CO5	
· B)	What do you mean by Biological magnification? What is the significance of BOD and COD? Explain.	Understand/CO4	
C)	How do you classify noise under different categories? Explain the causes and effects of noise pollution on human health	Understand/CO4	

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