Sanjay Ghodawat University, Kolhapur

2020-21

Established as State Private University under Govt. of Maharashtra. Act No XL, 2017

EXM/P/09/00

Year and Program: TY B.Tech Electrical Engg.	**School of Technology**	**Department: Electrical Engineering**
Course Code: ELE 310.2	**Course Title: Energy Efficiency in Electrical & Thermal Utility**	**Semester :VI**
Day and Date: Thursday,10.06.2021	**End Semester Examination**	**Time:2 Hrs. Max Marks:50**

Instructions: 1) All Questions are compulsory.

		Marks	Bloom's Level	CO
Q.1	**Answer/Solve the following (any Two)**			
a)	Write short note on i] Electricity Billing ii] Cascade Efficiency in power system.	8	L2	CO1
b)	Describe the Power Factor Improvement basics, its cost benefits, advantages & Capacitor locations in power system.	8	L3	CO2
c)	Describe types of lamps & their luminous performance characteristics.	8	L2	CO2
Q.2	**Answer/Solve the following (any two)**			
a)	Explain ECBC guidelines on i] Heat ventilation & AC system. ii] Serving hot water. iii] Lighting	8	L2	CO3
b)	Describe types of Boilers in detail.	8	L3	CO4
c)	Explain topping cycle & bottoming cycle also factors influencing cogeneration choice.	8	L2	CO4
Q.3	**Answer/Solve the following (any two)**			
a)	Describe various components of cooling tower and its purpose.	9	L3	CO 3
b)	Explain how the performance of Cooling Tower is evaluated.	9	L3	CO
c)	Explain the classification of furnace in detail.	9	L2	CO

*****