Total No. of Printed Pages:1

SUBJECT CODE NO:- H-1865
FACULTY OF SCIENCE AND TECHNOLOGY
M.E. (Electrical Power System)
El-1 Energy Audit & Conservation
(REVISED)

[Time: Three Hours] **[Max.Marks:80]**

Please check whether you have got the right question paper.

N.B i) Answer any two full questions from each section.

Section A

Q.1	a)	What do you mean by co-generation? Explain giving an example and block diagrams.	10
	a)	With a neat block diagram, explain the standalone solar photo voltaic system.	10
Q.2	a)	What are the objectives of energy conservation? How will you achieve the objectives with motors?	10
	b)	Explain fixed and variable concepts of triff systems.	10
Q.3	a)	Explain the criteria for selection of most efficient space for heating process. How can we save energy in coolers.	10
	b)	Explain in details "Implementations of Motor Management Program".	10

Section B

Q.4	a)	Explain in details, the concept of energy input to different loads in an industrial agricultural and commercial sector?	10
	b)	What are the different types of illumination controllers? Explain energy saving methods for ventilating system and refrigeration.	10
Q.5	a)	Explain the concept of electrical energy management. Explain the least square method for energy audit.	10
	b)	Explain key features of IS 12615 and IEEMA standards.	10
Q.6	a)	Elaborate the need of data energy flow diagram and its significance in view of energy audit.	10
	b)	Explain in details "Energy accounting" and its methods.	10