SHRI RAMSWAROOP MEMORIAL UNIVERSITY

End Semester Examination (2021-22)-Odd Semester

M. Tech. (Renewable Energy) – I Year (I Sem)											
Course Name: Introduction to Energy St	Code: MEE1009/1005P										
Time: 02 Hours	Max Marks: 60										
University Roll No.											

(To be filled by the Student)

Note: Please read instructions carefully:

a) The question paper has 03 sections and it is compulsory to attempt all sections.

b) All questions of Section A are compulsory; questions in Section B and C contain choice.

Section A: Very Short Answer type Questions Attempt all the questions.		BL	CLO	Marks (10)
1.	What are the three main sources of renewable and non-renewable	BL1	CLO1	02
2.	energy? Illustrate the motives of Energy Conservation Act.	BL 2	CLO 2	02
3.	Briefly explain Capacity factor and Reserve factor for a plant.	BL 2	CLO 3	02
4.	What is BEE?	BL 1	CLO 4	02
5.	What are bio-fuels?	BL 1	CLO 4	02
Section B: Short Answer Type Questions Attempt any 03 out of 06 questions.		BL	CLO	Marks (30)
1.	Illustrate the steps involved in Energy management Strategy.	BL 2	CLO 2	10
2.	Distinguish between preliminary energy and detailed energy audit.	BL 4	CLO 2	10
3.	Explain how energy pricing is done in India.	BL 5	CLO 3	10
4.	What do you understand by the term waste heat? Give two examples of waste heat recovery.	BL 1	CLO 4	10
5.	Compare 'combustion' and 'incineration'.	BL 4	CLO 4	10
6.	Compare the advantages of fuel source coal and LPG.	BL 4	CLO1	10
Section C: Long Answer Type Questions/Case Study Attempt any 01 out of 04 questions.		BL	CLO	Marks (20)
1.	Explain in detail about Nuclear reactor used in India.	BL 5	CLO 1	20
2.	Categorize the different nodal agencies for power in India? Briefly explain their responsibilities.	BL 4	CLO 2	20
3.	Explain some of the long-term energy strategies available for the better energy secured nation.	BL 4	CLO 3	20
4.	What are the plants used to make Bio-diesel fuel? How can bio-fuels be the solution to the impending energy crisis?	BL 1	CLO 4	20