

BIRLA INSTITUTE OF TECHNOLOGY, MESRA, RANCHI
(MID SEMESTER EXAMINATION MO/2023)

CLASS: BTECH
BRANCH: ALL

SEMESTER : V
SESSION : MO/2023

SUBJECT: ME392 RENEWABLE ENERGY SOURCES

TIME: 02 Hours

FULL MARKS: 25

INSTRUCTIONS:

1. The question paper contains 5 questions each of 5 marks and total 25 marks.
 2. Attempt all questions.
 3. The missing data, if any, may be assumed suitably.
 4. Tables/Data handbook/Graph paper etc., if applicable, will be supplied to the candidates
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Q.1(a)	Discuss the primary energy and secondary energy sources.	[2] 1	2
Q.1(b)	Explain the significance of energy consumption as a measure of prosperity.	[3] 1	1
Q.2	Explain briefly the advantages and limitations of renewable energy.	[5] 1	2
Q.3(a)	What do you mean by traditional form of energy? Mention its application.	[2] 1	1
Q.3(b)	Sketch and explain solar green houses.	[3] 2	2
Q.4(a)	Define incident angle and latitude angle.	[2] 2	1
Q.4(b)	Describe the working principle of solar furnace with neat sketch.	[3] 2	2
Q.5(a)	What is Solar PV Array?	[2] 2	1
Q.5(b)	Explain with neat sketch working principle of concentrating collector.	[3] 2	2

:::29/09/2023 M:::