

Reg. No.

**III SEMESTER M.TECH**

**END SEMESTER EXAMINATIONS, MAY /JUNE 2016**

**SUBJECT: ENERGY AND ENVIRONMENT [CIE 558]**

**OPEN ELECTIVE**

**REVISED CREDIT SYSTEM**

Time: 3 Hours

MAX. MARKS: 50

**Instructions to Candidates:**

- ❖ Answer any **FIVE FULL** questions.
- ❖ Draw neat sketches wherever required.
- ❖ All questions carry equal marks.

<b>1A.</b>	Write a brief note on global energy crisis.	<b>05</b>
<b>1B.</b>	Explain the principle of wind energy conversion?	<b>05</b>
<b>2A.</b>	Describe the classification of hydroelectric plants	<b>05</b>
<b>2B.</b>	Write a note on Parabolic dish reflector and Heliostat field collector	<b>05</b>
<b>3A.</b>	Explain the working of closed cycle ocean thermal-energy conversion systems.	<b>05</b>
<b>3B.</b>	Define gasification. Briefly explain about updraft gasifier	<b>05</b>
<b>4A.</b>	Write a short note on hydrothermal and petro thermal resources	<b>05</b>
<b>4B.</b>	With a neat diagram explain the double stage anaerobic digestion process biogas plant	<b>05</b>
<b>5A.</b>	What are the merits and demerits of nuclear power plants?	<b>05</b>
<b>5B.</b>	Explain the process of formation of coal.	<b>05</b>
<b>6A</b>	Explain the proc~s of fractional distillation in refining of crude oil.-----	<b>05</b>
<b>6B.</b>	Explain greenhouse effect with a neat sketch	<b>05</b>