

**PG/1<sup>st</sup> Semester/PGET 102**

**2022**

**Energy and Environment**

*Full Marks : 100*

Time : Three hours

*The figures in the margin indicate full marks for the questions.*

*Answer any five questions.*

1.	a)	List atleast five States where coal deposits are concentrated in India.	3
	b)	Name any three places of oil reserves located in India.	3
	c)	Describe the Greenhouse effect.	5
	d)	Name three greenhouse gases. Which one of them produces the maximum green house effect?	3
	e)	Define the following terms with three examples for each - i) Commercial and Non-commercial Energy. ii) Renewable and Non-renewable Energy	6
2.	a)	Explain the primary energy demand in India by fuel with sector wise comparison.	8
	b)	List the strategies for better energy security of the nation?	6
	c)	How do an Industry, nation and globe would benefit from energy efficiency programs?	6
3.	a)	What is global warming? What are its effects?	6
	b)	What are the causes of global warming	7
	c)	Explain the various measures which can help in reducing global warming	7
4.	a)	What is ozone layer? How it protects the earth?	4
	b)	What are the causes of depletion of ozone layer? How it will affect the earth?	8
	c)	What is an ecosystem? Discuss briefly about the structure/components of ecosystem.	8
5.	a)	Elaborates the causes, effects and control measures of: i) Land Pollution	6x2=12

	ii) Water Pollution	
	b) Explain the sources of Air Pollution.	8
6.	Write short notes on : <ul style="list-style-type: none"> <li>i. Pollutant Standard Index (PSI)</li> <li>ii. Kyoto Protocol</li> <li>iii. Acid Rain</li> <li>iv. Stock pollutants and Fund pollutants</li> </ul>	4x5=20

