

**Programme(PG)/1<sup>st</sup> Semester/PGET 102**

**2023**

**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)	Explain the different forms of energy.	4
	b)	Explain the key trend in India Energy Scenario	8
	c)	How do an Industry, nation and globe would benefit from energy efficiency programs?	6
	d)	List atleast four States where coal deposits are concentrated in India.	2
2.	a)	Discuss in brief the major components of environment?	6
	b)	Differentiate between abiotic and biotic components of ecosystem.	5
	c)	What is the significance of food chain?	3
	d)	Differentiate between food chain and food web.	4
	e)	Give reasons: "Life on earth depends on the sun".	2
3.	a)	Discuss briefly the structure of Atmosphere.	8
	b)	Name the fossil fuel and renewable fuel which have methane as its dominant constituents.	2
	c)	Name two GHGs emitted by agricultural practices.	2
	d)	Name the major air pollutants produced from fossil fuel burning.	2
	e)	What are the methods to prevent noise pollution	6
4.	a)	Discuss the causes, effects and control measures of Water Pollution.	10
	b)	Discuss the role of an individual in preventions of pollutions.	10
5.	a)	What are the effects of ozone layers on human and on environment.	10
	b)	Describe Global warming and its effect, causes and solutions	10

6.	Write Short Notes on :(Any four)	4x5=20
	a) Causes of Air Pollution	
	b) Acid rain	
	c) Kyoto Protocols	
	d) Ecological pyramids	
	e) Primary and secondary Energy	

