22549

23124 3 Hours / 70 Marks

Ceet Me				
Seat No.				

Instructions : (1) All Questions are *compulsory*.

- (2) Illustrate your answers with neat sketches wherever necessary.
- (3) Figures to the right indicate full marks.
- (4) Assume suitable data, if necessary.

1.	Atte	10	
	(a)	Describe present scenario of energy in Maharashtra.	
	(b)	Enlist two advantages of non-conventional energy sources.	
	(c)	Write four solar energy applications.	
	(d)	Write any four sources of biomedical waste.	
	(e)	Write significance of biomedical waste management system.	
	(f)	State the autoclaving technique for biomedical waste management.	
	(g)	Draw flow chart of biomedical waste management process.	
2.	Atte	empt any THREE :	12
	(a)	Write in detail four limitations of conventional power plants.	
	(b)	Explain flat plate collector with neat sketch.	
	(c)	Describe the importance of Energy Audit.	
	(d)	Explain impact of bio-chemical waste on human health.	
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3. Attempt any THREE :

- (a) Describe the environmental pollution due to medical waste.
- (b) Explain the working principle of wind energy turbine.
- (c) Discuss the limitations of non-conventional energy sources in detail (any four).
- (d) Describe the features of Energy Conservation Act, 2001.

4. Attempt any THREE :

- (a) Draw block diagram of thermal power plant, name various components and explain working of it.
- (b) List various components of wind turbine and write function of each part. Also state merits and limitations of wind energy turbine.
- (c) State the need of energy conservation and suggest various ways for energy conservation.
- (d) Discuss the impact of radiological and pathological waste on human being.
- (e) Explain plasma pyrolysis method for biomedical waste and disposal.

5. Attempt any TWO :

- (a) State any four advantages and any four limitations of solar energy.
- (b) Describe WHO guidelines for management of a specific waste of hospital.
- (c) Describe microwave irradiation process used in biomedical waste management.

6. Attempt any TWO :

- (a) Explain biogas production from biomass using a suitable diagram.
- (b) Explain the various laws regarding environmental protection.
- (c) Describe safety and precautionary measures used for waste management.

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