GBGS SCHEME

USN	*										18ME751
-----	---	--	--	--	--	--	--	--	--	--	---------

Seventh Semester B.E. Degree Examination, June/July 2023 **Energy and Environment**

Time: 3 hrs. Max. Marks: 100

Module-1 a. Define energy and power. Explain forms of energy. Definition: Energy: Ability or cap to do work. (10 M) b. List and explain factors affecting India's energy development. (10 M) OR 2 a. Explain energy production and trade. (10 M) Explain key energy trends in India. (10 M) Module-2 3 a. List and explain thermal energy storage methods. (10 M) b. Explain demographics policy with social and environmental aspects. (10 M) OR 4 a. Explain economic analysis of an investment project. (10 M) Explain energy audit and methodology with respect to process Industries. (10 M) Module-3 5 a. Define environmental with multidisciplinary nature of environment. (10 M) b. Define ecosystem with structure and function of ecosystem. (10 M) OR 6 a. Explain need for public awareness about environment. (10 M) b. Explain ecological pyramid with suitable neat sketch (10 M) Module-4 7 a. List and explain causes and control measures of air pollution. (10 M) List the pollution case study. Briefly explain any one case study. (10 M)	rks) rks) rks)
1 a. Define energy and power. Explain forms of energy. Definition: Energy: Ability or cap to do work. b. List and explain factors affecting India's energy development. OR 2 a. Explain energy production and trade. b. Explain key energy trends in India. (10 M) Module-2 3 a. List and explain thermal energy storage methods. b. Explain demographics policy with social and environmental aspects. OR 4 a. Explain energy audit and methodology with respect to process Industries. (10 M) b. Explain energy audit and methodology with respect to process Industries. (10 M) Module-3 5 a. Define environmental with multidisciplinary nature of environment. b. Define ecosystem with structure and function of ecosystem. (10 M) OR 6 a. Explain need for public awareness about environment. b. Explain ecological pyramid with suitable neat sketch. (10 M) Module-4 7 a. List and explain causes and control measures of air pollution. (10 M)	rks) rks) rks)
b. List and explain factors affecting India's energy development. OR a. Explain energy production and trade. b. Explain key energy trends in India. (10 M Module-2 3 a. List and explain thermal energy storage methods. b. Explain demographics policy with social and environmental aspects. OR 4 a. Explain economic analysis of an investment project. b. Explain energy audit and methodology with respect to process Industries. Module-3 5 a. Define environmental with multidisciplinary nature of environment. b. Define ecosystem with structure and function of ecosystem. OR 6 a. Explain need for public awareness about environment. b. Explain ecological pyramid with suitable neat sketch. Module-4 7 a. List and explain causes and control measures of air pollution. (10 M Module-4 7 a. List and explain causes and control measures of air pollution.	rks)
OR 2 a. Explain energy production and trade. b. Explain key energy trends in India. (10 M	rks)
2 a. Explain energy production and trade. b. Explain key energy trends in India. Module-2 3 a. List and explain thermal energy storage methods. b. Explain demographics policy with social and environmental aspects. OR 4 a. Explain economic analysis of an investment project. b. Explain energy audit and methodology with respect to process Industries. Module-3 5 a. Define environmental with multidisciplinary nature of environment. b. Define ecosystem with structure and function of ecosystem. OR 6 a. Explain need for public awareness about environment. b. Explain ecological pyramid with suitable neat sketch. Module-4 7 a. List and explain causes and control measures of air pollution. (10 Magnetic Module-4) 7 a. List and explain causes and control measures of air pollution.	
2 a. Explain energy production and trade. b. Explain key energy trends in India. Module-2 3 a. List and explain thermal energy storage methods. b. Explain demographics policy with social and environmental aspects. OR 4 a. Explain economic analysis of an investment project. b. Explain energy audit and methodology with respect to process Industries. Module-3 5 a. Define environmental with multidisciplinary nature of environment. b. Define ecosystem with structure and function of ecosystem. OR 6 a. Explain need for public awareness about environment. b. Explain ecological pyramid with suitable neat sketch. Module-4 7 a. List and explain causes and control measures of air pollution. (10 Magnetic Module-4) 7 a. List and explain causes and control measures of air pollution.	
b. Explain key energy trends in India. (10 M Module-2 a. List and explain thermal energy storage methods. (10 M b. Explain demographics policy with social and environmental aspects. (10 M OR a. Explain economic analysis of an investment project. (10 M b. Explain energy audit and methodology with respect to process Industries. (10 M Module-3 a. Define environmental with multidisciplinary nature of environment. (10 M b. Define ecosystem with structure and function of ecosystem. (10 M OR a. Explain need for public awareness about environment. (10 M Define ecological pyramid with suitable neat sketch. (10 M Module-4 7 a. List and explain causes and control measures of air pollution. (10 M Module-4	
Module-2 3 a. List and explain thermal energy storage methods. (10 M b. Explain demographics policy with social and environmental aspects. (10 M construction of environmental aspects) Social and environmental aspects. (10 M construction of environment. (10 M construction of ecosystem) Module-3 5 a. Define environmental with multidisciplinary nature of environment. (10 M construction of ecosystem) OR 6 a. Explain need for public awareness about environment. (10 M construction of ecosystem) Module-4 7 a. List and explain causes and control measures of air pollution. (10 M construction of ecosystem)	rks)
a. List and explain thermal energy storage methods. b. Explain demographics policy with social and environmental aspects. OR a. Explain economic analysis of an investment project. b. Explain energy audit and methodology with respect to process Industries. Module-3 a. Define environmental with multidisciplinary nature of environment. b. Define ecosystem with structure and function of ecosystem. OR a. Explain need for public awareness about environment. b. Explain ecological pyramid with suitable neat sketch. Module-4 7 a. List and explain causes and control measures of air pollution. (10 Mag) Module-4 7 a. List and explain causes and control measures of air pollution.	
a. List and explain thermal energy storage methods. b. Explain demographics policy with social and environmental aspects. OR a. Explain economic analysis of an investment project. b. Explain energy audit and methodology with respect to process Industries. Module-3 a. Define environmental with multidisciplinary nature of environment. b. Define ecosystem with structure and function of ecosystem. OR a. Explain need for public awareness about environment. b. Explain ecological pyramid with suitable neat sketch. Module-4 7 a. List and explain causes and control measures of air pollution. (10 Mag) Module-4 7 a. List and explain causes and control measures of air pollution.	
b. Explain demographics policy with social and environmental aspects. OR a. Explain economic analysis of an investment project. b. Explain energy audit and methodology with respect to process Industries. Module-3 a. Define environmental with multidisciplinary nature of environment. b. Define ecosystem with structure and function of ecosystem. OR a. Explain need for public awareness about environment. b. Explain ecological pyramid with suitable neat sketch. Module-4 7 a. List and explain causes and control measures of air pollution. (10 Mag) Module-4 7 a. List and explain causes and control measures of air pollution.	rks)
OR 4 a. Explain economic analysis of an investment project. b. Explain energy audit and methodology with respect to process Industries. Concept Module-3 a. Define environmental with multidisciplinary nature of environment. b. Define ecosystem with structure and function of ecosystem. OR 6 a. Explain need for public awareness about environment. b. Explain ecological pyramid with suitable neat sketch. (10 Mag) OR 10 Mag) OR 10 Mag) OR 10 Mag) OR 10 Mag) Module-4 7 a. List and explain causes and control measures of air pollution. (10 Mag)	
4 a. Explain economic analysis of an investment project. b. Explain energy audit and methodology with respect to process Industries. Module-3 5 a. Define environmental with multidisciplinary nature of environment. b. Define ecosystem with structure and function of ecosystem. OR 6 a. Explain need for public awareness about environment. b. Explain ecological pyramid with suitable neat sketch. (10 Mag) (10 Mag) (10 Mag) (10 Mag) Module-4 7 a. List and explain causes and control measures of air pollution. (10 Mag)	
b. Explain energy audit and methodology with respect to process Industries. Module-3	
Module-3 5 a. Define environmental with multidisciplinary nature of environment. b. Define ecosystem with structure and function of ecosystem. OR 6 a. Explain need for public awareness about environment. b. Explain ecological pyramid with suitable neat sketch. (10 Ms (10 M	rks)
5 a. Define environmental with multidisciplinary nature of environment. b. Define ecosystem with structure and function of ecosystem. OR 6 a. Explain need for public awareness about environment. b. Explain ecological pyramid with suitable neat sketch. (10 Mag) (10 Mag) Module-4 7 a. List and explain causes and control measures of air pollution. (10 Mag)	rks)
5 a. Define environmental with multidisciplinary nature of environment. b. Define ecosystem with structure and function of ecosystem. OR 6 a. Explain need for public awareness about environment. b. Explain ecological pyramid with suitable neat sketch. (10 Mag) (10 Mag) Module-4 7 a. List and explain causes and control measures of air pollution. (10 Mag)	
b. Define ecosystem with structure and function of ecosystem. OR 6 a. Explain need for public awareness about environment. b. Explain ecological pyramid with suitable neat sketch. (10 Mag) Module-4 7 a. List and explain causes and control measures of air pollution. (10 Mag)	
6 a. Explain need for public awareness about environment. b. Explain ecological pyramid with suitable neat sketch. Module-4 7 a. List and explain causes and control measures of air pollution. (10 Mag)	
b. Explain ecological pyramid with suitable neat sketch. (10 Ms Module-4 7 a. List and explain causes and control measures of air pollution. (10 Ms	rks)
b. Explain ecological pyramid with suitable neat sketch. (10 Ms Module-4 7 a. List and explain causes and control measures of air pollution. (10 Ms	
b. Explain ecological pyramid with suitable neat sketch. (10 Ms Module-4 7 a. List and explain causes and control measures of air pollution. (10 Ms	rks)
7 a. List and explain causes and control measures of air pollution. (10 Ms	
7 a. List and explain causes and control measures of air pollution. (10 Mag	
b. List the pollution case study. Briefly explain any one case study. (10 Mg	rks)
	rks)
10	
8 a. Explain role of individual in prevention of pollution. (10 Ms	ulra)
b. Explain thermal pollution and nuclear Hazards. (10 Ms	
10 141	(KS)
Module-5	
9 a. Explain acid rain and causes of acid rain with suitable chemical reactions. (10 Ma	rks)
b. List and explain the methods of waste land reclamation. (10 Magnetic control of the methods)	
OR OR	
10 a. Explain about air pollution and prevention acts in India. (10 Ma	rks)
b. Explain issues involved in enforcement of environmental legislation. (10 Ma	

2. Any revealing of identification, appeal to evaluator and /or equations written eg, 42+8=50, will be treated as malpractice. Important Note: 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.