

INSTITUTE OF AERONAUTICAL ENGINEERING

(Autonomous)
Dundigal, Hyderabad -500 043

CIVIL ENGINEERING TUTORIAL QUESTION BANK

Course Name	:	Environmental Studies
Course Code	:	A40009
Class	:	II B. Tech II Semester
Branch	:	Civil Engineering
Year	:	2016 – 2017
Course Coordinator	:	Dr. Kavita Singh, Associate professor
Course Faculty	:	Dr. Kavita Singh, Associate professor

OBJECTIVES

- I. Understanding the importance of ecosystems, ecological balance for sustainable development.
- II. Recognize the significance of Natural resources, their classification and alternative energy sources for the sustainability of the environment, society and economy by appropriate maintenance of natural resources.
- III. Understand the biodiversity and types of biodiversity along with the Values and conservation of biodiversity.
- IV. Categorize the types of environmental pollution and the various treatment technologies for the diminution of environmental pollutants and contaminants.
- V. Summarize the global environmental issues and to create awareness about the international conventions and protocols for extenuating global environmental problems. Understanding the Environmental legislation and importance.
- VI. Understanding the sustainable development concept and importance of green building Understanding the importance of EIA,EIS and EMP.

S No	QUESTION	Blooms taxonomy level	Course Outcomes		
	UNIT - I ECOSYSTEMS				
	Part - A (Short Answer Questions)				
1	Define ecology and ecosystem.	Remember	1		
2	Differentiate between food chain and food web.	Understand	1		
3	Define pyramid of energy.	Remember	1		
4	Briefly discuss about grassland ecosystem	Analyze	1		
5	Explain few important characteristics of a forest ecosystem	Understand	1		
6	Define ecological pyramids.	Understand	1		
7	Define pyramid of energy.	Remember	1		

8	Differentiate between grazing food chain detritus food chain.	Analyze	1
9	Define photosynthesis process.	Remember	1
10	Enlist the types of grasslands in India and two animal species found in this	Remember	1
	Part - B (Long Answer Questions)		
	Discuss the major characteristics features of a river ecosystem different		
1	from lake ecosystem Enlist the main components of ecosystem and briefly describe the functions	Remember	1
2	of each	Remember	1
3	Explain the role of producers, consumers and decomposers in an ecosystem with practical example.	Understand	1
4	What are food chain and food web? Give example and discuss their significance.	Remember	1
5	What are biogeochemical cycles? Explain nitrogen cycle with help of a diagram.	Understand	1
6	Describe five ecosystems goods and services that human benefits from.	Understand	1
7	Discuss the structure and function of desert ecosystem.	Analyze	1
8	Explain phosphate and sulphate cycles.	Understand	1
9	Explain briefly about indicators of the quality of ecosystem.	Understand	1
10	What is meant by biomagnifications? Explain	Understand	1
11	Sustainable management of natural resources is essential to provide livelihood and environmental security'. Discuss.	Analyze	1,2
	Part - C (Problem Solving and Critical Thinking Question	is)	
	Explain how different development activities, including construction of dams, affect the various ecosystems and what action need to be taken		
1	to conserve them.	Understand	1
2	Explain the impacts of pesticide and other agro chemicals on any ecosystem you have visited.	Understand	1
3	Explain with examples the links between the activities of man which are hazardous to human health and ecosystem.	Understand	
4	Discuss how are life system affected by stress?	Analyze	1
5	What impacts do human activities have on populations, communities and Ecosystems.	Remember	1
,	Write a brief scenario describing the sequence of consequences to us other forms of life if decomposers and detritus feeders were some how eliminated, all producers on land in upper zone of aquatic ecosystems were eliminated by drastic increases in UV radiation region earth surface due to		1 4 5
6	loss of protective stratosphere ozone layer. Explain the significance of preserving of balance in various kinds of	Evaluate	1,4,5
7	ecosystem. Illustrate with examples.	Apply	1
8	Discuss models of energy flow in an ecosystem	Analyze	1
9	What is homeostasis? What are feedback mechanism	Apply	1
10	Explain the significance of preserving of balance in various kinds of ecosystem. Ilustrate with an example.	Apply	1
	UNIT - II	11 -	
NATURAL RESOIURCES Port A (Short Angura Oroginas)			
Part – A (Short Answer Questions)			
1	Enumerate some of the water resources problems in India.	Analyze	3
2	Discuss the problems of over exploitation of ground water.	Analyze	3
3	Enlist different surface and ground water resources.	Remember	4
4	What are the environmental effects of using of mineral resources?	Remember	3
5	What is mineral? What is its use?	Understand	3

6	What is water logging?	Understand	3	
7	What is soil erosion?	Understand	3	
8	What are the effects of soil pollution?	Analyze	3	
9	Differentiate soil texture and structure.	Analyze	3	
10	What are the different types of natural resources	Remember	3	
10	Part - B (Long Answer Questions)	remember		
1	What are Natural resources and write the classification of resources.	Remember	2	
2	Discuss Big dams - Benefits and problems	Understand	2,3	
3	What are Mineral Resources, uses and exploitation?	Remember	2,3	
4	What are alternate energy sources? Explain their present status, merits and demerits.	Analyze	2,3	
5	What are the different types of energies which can be derived from the ocean? Explain briefly along with their advantages and limitations.	Analyze	2,3	
6	Describe the merits and demerits of nuclear power energy and discuss the major concern regarding its use for electricity generation in India	Analyze	2,3	
7	Write a note on solar energy; also discuss about the solar cells with a diagram and enumerate its applications	Understand	3	
8	Write a note on growing energy needs?	Remember	3	
9	What are non renewable energy resources; explain in detail.	Analyze	2,3	
10	What is an aquifer? Discuss its types?	Understand	2	
	Part – C (Problem Solving and Critical Thinking)			
1	Summarize a detailed report on the management of water and waste water in your town/city?	Remember	2,4	
2	Discuss with the help of a case study, how big dams have affected forests and tribal?	Understand	2	
3	What mineral resource is extracted in your local area? What mining methods are used.	Remember	2	
4	Evalute timber harvesting on private and public land s in the local area? what are most widely harvested	Understand	2,3	
5	How is electricity in your community is produced? Does your community And college has a plan for improving energy efficiency	Apply	1,2	
6	Explain the effects of dams on tribal people with special reference to indira sagar project?	Remember	2,3	
7	Discuss the role played by the non conventional; energy resources towards the protection of the environment?	Understand	2,3	
8	What is biogas; discuss the structure and function of the biogas.	Remember	2,3	
9	Write a note on solar energy; also discuss about the solar cells with a diagram and enumerate its applications	Understand	2,3	
10	Briefly discuss droughts and floods with respect to their occurrence and impacts.	Apply	2,3	
	UNIT-III PLODIVED SITVAN PLOTIC DESCUDÇES			
	BIODIVERSITY AN BIOTIC RESOURCES Part - A (Short Answer Questions)			
1.	Enumerate the biogeographical classification of India.	Analyze	4	
2.	What do you mean by hot spots of biodiversity? Mention the three hot spots in India.	Remember,	4	
3.	Differentiate between endanger and endemic species.	Differentiate	4	
4.	What is meant by in situ and ex situ conservation of biodiversity?	Understand	4	
5.	What does NBPGR AND NBAGR stand for? Where are they located?	Analyze	4	
6.	Enlist the indirect values of biodiversity	Remember	4	

8. Differentiate genetic and species diversity. 9. Define national biodiversity act. 10. How do you consider India as a nation of mega diversity nation? Part – B (Long Answer Questions) Discuss the causes of man-wild life conflicts. Suggest suitable wild life conservation practices. 1		To 64 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	TT 1	4
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6	Briefly explain the Municipal Solid Waste management	Apply	5,6
7	Write a note on climate change and impacts on human environment	Understand	6
8	Explain Ozone depletion and Ozone depleting substances (ODS).	Evaluate	6
9	List out the Sewage treatment plants, effluent treatment plants and common effluent treatment plants in your vicinity.	Evaluate,	6
10	What are the problems encountered in the disposal of solid waste from various sources?	Analyze	5
10	Part – B (Long Answer Questions)	Allaryze	
1	List out the Sewage treatment plants, effluent treatment plants and common effluent treatment plants in your vicinity.	Understand	5,6
2	What are the problems encountered in the disposal of solid waste from various sources?	Apply	5,6
3	How e-waste can be effectively managed.	Apply	5,6
4	List out the Sewage treatment plants, effluent treatment plants and common effluent treatment plants in your vicinity.	Remember	5,6
5	How many times during each of past five years have levels of testeted contaminants violated pollution control board standards?	Creating	5,6
6	Compare weather strom drains and sanitary sewers combines or separate in your area? Are there plans to reduce pollution from strom water runoff?	Evaluate	5,6
7	Develop and action plan for reducing your exposure to indoor air pollution.	Remember	5,6
8	Identify at least two moral and ethical responses each to the issue of global climate values, belifs and perspevtives. Compare From available air quality data determine weather outdoor air	Remember	5,6
9	pollutants in your community became better or worse since last 10 years.	Evaluate	5,6
10	Discuss the salient features of earth summit. Part – C (Problem Solving and Critical Thinking)	Apply	5,6
	Fart – C (Froblem Solving and Critical Thinking)	-	
1	Write about environmental pollution and explain their types. Define air pollution and describe the technologies for the control of air	Understand	5
2	pollution	Remember	5,6
3	Explain primary and secondary sources of air pollution?	Understand	5
4	Write about environmental pollution and explain their types. What are the effects of water pollution and enumerate drinking water	Remember	5
5	quality standards	Remember	5,6
6	Briefly explain the Municipal Solid Waste management	Apply	5,6
7	Write a note on climate change and impacts on human environment	Understand	6
8	Explain Ozone depletion and Ozone depleting substances (ODS).	Evaluate	6
9	List out the Sewage treatment plants, effluent treatment plants and common effluent treatment plants in your vicinity.	Evaluate,	6
10	What are the problems encountered in the disposal of solid waste from various sources?	Analyze	5
	UNIT-V ENVIRONMENTAL POLICY, LEGISLATION AND EIA Part - A (Short Answer Questions)		
1	Enlist the objectives of Air pollution act.	Remember	6,7
2	Explain the necessity of wild life protection act.	Remember	7
	Explain the necessity of various environmental legislations.	Remember	7
3		A1	6,7
3 4	Mention the objectives of environmental protection act.	Anaryze	0, ,
	Mention the objectives of environmental protection act. What is environmental impact assessment?	Analyze Understand	6

7	Define sustainable development.	Understand	7
8	What is the role of remote sensing and GIS in EIA study.	Understand	6,7
9	What is meant by crazy consumerism?	Understand	7
10	What are the principles of sustainable cities.	Analyze	7
	Part - B (Long Answer Questions)		
1	Write about environmental protection Act	Apply	7
2	Disscuss the major provisions in Forest Conservation Act 1980	Evaluate	7
3	What are the major municipal solid waste management and handling rules.	Evaluate	5,6
4	What are the biomedical wastes? What are the rules to manage and handle them.	Evaluate	5
5	Write a note on Impacts of air, water, biological and Socio-economical Aspects	Apply	4,5
6	Explain the concept of sustainable development	Analyze	7
7	Write a note on environmental ethics and explain concept of green Building	Apply	7
8	Illustrate Ecological Foot Print, Life Cycle assessment (LCA), Low carbon life style.	Apply	7
9	Briefly explain the Municipal Solid Waste management	Analyze	6,7
10	Write a note on climate change and impacts on human environment	Apply	7
	Part – C (Problem Solving and Critical Thinking)		
1	Identify environmental education necessary in the present context? What is your opinion about the environmental ethics?	Analyze	6,7
2	Explain are you crazy about the consumerism?	Remember	7
3	Describe Environmental Education and its role in the present context.	Remember	7
4	What is Urban sprawl and how is it related to human health.	Remember	7
5	Write a note on environmental ethics and explain concept of green Building	Apply	6,7
6	Brief out Ecological Foot Print, Life Cycle assessment (LCA), Low carbon life style	Remember	7
7	Disscuss the role of IT in environment	Apply	7
8	What are the earth centric and human centric world views	Evaluate	6,7
9	Discuss basic characteristics of Green buildings.	Understand	7
10	What is the role assigned to central pollution control board and state pollution control board under the water act 1974.	Apply	7

Prepared By: Dr. Kavita Singh, Associate Professor