



INSTITUTE OF AERONAUTICAL ENGINEERING

Dundigal, Hyderabad - 500 043

MECHANICAL ENGINEERING

ASSIGNMENT QUESTIONS

Course Name	: ENVIRONMENTAL STUDIES
Course Code	: A3009
Class	: II B. Tech I Semester
Branch	: Aeronautical
Year	: 2016– 2017
Course Faculty	: Mr. M.Praveen

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.

UNIT-I			
S. No.	Question	Blooms Taxonomy Level	Course Outcomes
1	Briefly discuss about grassland ecosystem	Remember	1
2	Explain few important characteristics of a forest ecosystem.	Understand	1
3	Explain why there are only 4 to 5 trophic levels in an ecosystem	Remember	1
4	Briefly explain an aquatic ecosystem.	Analyze	1
5	Define biomagnifications.	Understand	1
6	Write a note on solar energy; also discuss about the solar cells with a diagram and enumerate its applications	Remember	2,3
7	Briefly discuss droughts and floods with respect to their occurrence and impacts.	Understand	2,3
8	Discuss can you prevent the depletion of ground water resources?	Understand	3
9	Write a note on growing energy needs?	Understand	3
10	Describe non renewable energy resources; explain in detail.	Understand	2

UNIT-II			
1	Discuss in detail what is aquifer?	Analyze	2
2	Enlist different surface and ground water resources.	Understand	2
3	What are the environmental effects of using of mineral resources?	Apply	2
4	What is mineral? What is its use?	Understand	2
5	What are non renewable resources?	Analyze	2
6	Define water logging? What are the environmental effects of water logging?	Understand	2
7	Briefly discuss droughts and floods with respect to their occurrence and impacts.	Understand	2,3
8	Describe how you can prevent the depletion of ground water resources.	Knowledge & understand	2,3
9	Write a note on growing energy needs?	Remember	2,3
10	What are non renewable energy resources; explain in detail.	Remember	2,3
UNIT-III			
1	What does NBPGR AND NBAGR stand for? Where they are located.	Understand	4
2	What are the major causes of man-wild life conflict?	Remember, Analyze	4
3	What are the major threats to biodiversity?	Understand	4
4	What are endemic species? Name some endemic species in India.	Understand	4
5	What are national wildlife sanctuaries?	Understand	4
6	Enlist the indirect values of biodiversity.	Remember	4
7	Define biological diversity.	Apply	4
8	Differentiate genetic and species diversity	Analyze	4
9	Discuss the various strategies of conservation of biodiversity?	Analyze	4
10	Enumerate five important biosphere reserves, national parks and wild life sanctuaries of India.	Analyze	4
UNIT-IV			
1	Mention the main treatment methods meant for industrial effluents.	Remember	5,6
2	What are the chemical treatments for industrial effluents?	Remember	5,6
3	Differentiate between aerobic oxidation and anaerobic oxidation.	Analyze	5,6
4	Define some of the water borne diseases and the name of the pathogenic organisms involved in it.	Remember	6
5	What is meant by eutrophication.	Remember	5
6	Define Bod and Cod.	Understand	5
7	Differentiate between blue baby syndrome and itai-itai disease.	Analyze	5,6
8	Define soil pollution.	Remember	5,6
9	Enumerate the various effects of soil pollution.	Analyze	5,6
10	How is the monitoring of soil pollution made?	Remember	5,6
UNIT-V			
1	What is the role assigned to central pollution and state pollution control board under the water pollution and prevention act.	Analyze	5,6,7
2	What is environmental impact assessment?	Understand	6
3	Define Environmental Impact Assessment and Environmental Management plan.	Analyze	6
4	Differentiate direct impact and indirect impact.	Analyze	6
5	Describe what is meant by base-line data?	Apply	6
6	Discuss impact evaluation? How is it done?	Apply	6

7	Illustrate is the role of remote sensing and GIS in EIA study.	Understand	5,6
8	Define sustainable development.	Remember	5
9	What is meant by environmental ethics?	Remember	6
10	What is meant by environmental education?	Analyze	7

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