Name: Student University Roll No.:	**Printed Pages:01**
School of Engineering Second Sessional Examination, Even Semester (AS: 2022-23) B. Tech: [Year: 1] [Semester: II]	
Course Title: Environmental Studies **Course Code: BAS3204**	**Max Marks: 60** **Time: 3hrs**

Instructions if any: Read the question Carefully.

	SECTION 'A' **Q.N.1. Attempt all parts of the following:**	**Course Objective**	**Marks**
a)	Why a lake is to be considered a natural ecosystem?	CO2	1
b)	Why green plants are called producers?	CO2	1
c)	What is meant by the term biomass?	CO4	1
d)	What is 10% law? Give an example.	CO1	1
e)	What is meant by biological magnification?	CO3	1
f)	Under which law, Environmental Impact Assessment (EIA) is mandatory?	CO4	1
g)	When World Environment Day is celebrated?	CO1	1
h)	Write the name of the pollutants which are responsible for acid rain.	CO3	1

	SECTION 'B' **Q.N.2. Attempt any two parts of the following:**	**Course Objective**	**Marks**
a)	What is EIA? Discuss the categories and method of EIA.	CO2	6
b)	Define the term prey and predator. Discuss the population dynamics of prey and predator with the help of Lotka-volterra equation.	CO4	6
c)	What is solid waste? Write different types of solid waste. Discuss solid waste management.	CO1	6
d)	What is air pollution? Differentiate between primary and secondary air pollutants. Discuss removal methods of gaseous and particulate matter from polluted air.	CO3	6

	SECTION 'C'	**Course Objective**	**Marks**
	Q.N.3. Attempt any two parts of the following:		
a)	What is material cycle? Discuss different step of Nitrogen cycle with suitable diagram.	CO2	5
b)	Write about conventional and non-conventional sources of energy. Comment upon the statement, as hydrogen is a future fuel.	CO3	5
c)	What do you understand by NGO's? Discuss the role of women education in environmental protection.	CO1	5
	Q.N.4. Attempt any two parts of the following:		
a)	Write a short note on Eutrophication and Biomagnification.	CO2	5
b)	What is an ecological pyramid? Describe different kinds of ecological pyramids with a suitable diagram.	CO4	5
c)	What are water-borne and water-induced diseases? Discuss fluoride and arsenic problems in drinking water.	CO3	5
	Q.N.5. Attempt any two parts of the following:		
a)	What is STP? Discuss its various steps.	CO4	5
b)	What do you understand by "sound" and "noise"? Describe noise pollution and its impact on human health.	CO3	5
c)	Define sustainable development. Discuss the measure of sustainable development and how it can be achieved.	CO1	5
	Q.N.6. Attempt any two parts of the following:		
a)	Differentiate between deforestation and forest degradation. Discuss its causes and control measures.	CO1	5
b)	What are Environmental Legislations? Discuss Environment Protection Act.	CO4	5
c)	What is biodiversity? Write about its loss and conservation.	CO2	5

COs	Questions Numbers	Total Marks
CO1	1(d), 1(g), 2(c), 3(c), 5(c), 6(a)	22
CO2	1(a),1(b), 2(a), 3(a), 4(a), 5(c)	22
CO3	1(e),1(h), 2(d), 3(b), 4(c), 5(b)	22
CO4	1(f),1(c), 2(b), 4(b), 5(a), 6(b)	22