H.T No

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(An Autonomous Institution)

Regulations: A20

Code No:8HC05 **Date: 22-August-2024 (FN)**

B.Tech II-Year II- Semester External Examination, August-2024 (Supplementary)

ENVIRONMENTAL SCIENCE AND ECOLOGY (CIVIL,ECE,CSE)

Time: 3 Hours **Max.Marks:70**

Note: *a) No additional answer sheets will be provided.*
b) All sub-parts of a question must be answered at one place only, otherwise it will not be valued.
c) Missing data can be assumed suitably.

Bloom's Cognitive Levels of Learning (BCLL)

Remember	L1	Apply	L3	Evaluate	L5
Understand	L2	Analyze	L4	Create	L6

Part - A Max.Marks:20

ANSWER ALL QUESTIONS

		BCLL	CO(s)	Marks
1	Define Ecosystem. Write any two examples	L1	CO1	[2M]
2	Classify the natural resources.	L2	CO2	[2M]
3	Write a note on genetic level of biodiversity.	L2	CO3	[2M]
4	Differentiate primary and secondary air pollutants with examples.	L3	CO4	[2M]
5	Define Sustainable development.	L1	CO5	[2M]
6	Write the functions of CPCB in EPA	L2	CO6	[2M]
7	Name any in-situ consenervative methods	L2	CO1	[2M]
8	Write the threats to loss of biodiversity.	L2	CO3	[2M]
9	Write the parameters considered in Green building.	L2	CO5	[2M]
10	List out the alternate energy resources.	L1	CO2	[2M]

Part – B Max.Marks:50

ANSWER ANY FIVE QUESTIONS. EACH QUESTION CARRIES 10 MARKS.

		BCLL	CO(s)	Marks
11.	Explain the Models of Energy Flow in an Ecosystem with neat sketch..	L3	CO1	[10M]
12.	Explain in detail on the benefits and Problems in Constructing a Dam	L3	CO2	[10M]
13.	Explain the Threats and Conservation Methods of biodiversity.	L3	CO3	[10M]
14.	Explain the Effects, Causes and Preventive Methods for Air Pollution.	L3	CO4	[10M]
15.	Explain the concept of Green Building with LEED ratings.	L3	CO5	[10M]
16.	Write about the functions and powers of Environmental Protection Act – 1986.	L2	CO6	[10M]
17. a)	Write a note on producers.	L2	CO1	[4M]
b)	Write about any two energy resources.	L2	CO2	[3M]
c)	Discuss the consumptive value of Biodiversity.	L1	CO3	[3M]
18. a)	Discuss the impacts of water pollution.	L1	CO4	[4M]
b)	Write a note on Green House Effect with diagram.	L2	CO5	[3M]
c)	Write a note on EIA.	L2	CO6	[3M]

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