

ANURAG Engineering College**(An Autonomous Institution)****II B.Tech I Semester Supplementary Examinations, Jan/Feb-2024****ENVIRONMENTAL SCIENCE****(ELECTRONICS AND COMMUNICATION ENGINEERING)****Time: 3 Hours****Max. Marks: 75****Section – A (Short Answer type questions)****(25 Marks)****Answer All Questions**

	Course Outcome	B.T Level	Marks
1. Define ecological succession and compare between primary and secondary ecological successions	CO1	L2	2M
2. Write a note on hotspots of biodiversity and interpret their importance	CO1	L2	3M
3. Explain in brief, the impacts of subsurface/ underground mining	CO2	L1	2M
4. What are effects of over usage of fertilizers and pesticides in agriculture?	CO2	L1	3M
5. What are the problems arising due to solid wastes?	CO3	L1	2M
6. Write a brief note on Bhopal Gas Tragedy	CO3	L1	3M
7. Define disaster management and explain the pre-disaster management steps for Cyclones	CO4	L2	2M
8. Recall control measures for noise pollution	CO4	L2	3M
9. Summarize few impacts of environment on human health	CO5	L2	2M
10. Explain in short about the carbon footprint and its importance	CO5	L1	3M

Section B (Essay Questions)**Answer all questions, each question carries equal marks.****(5 X 10M = 50M)**

11. A) i) Identify the structure of ecosystem(s) in general.	CO1	L2	5M
ii) Classify ecological pyramids and apply them for pond and parasitic ecosystems.		L3	5M
OR			
B) Choose the uses of biodiversity in terms of humans and environment.	CO1	L3	10M
12. A) i) At present surface and ground water resources are under over exploitation. List out the reasons and consequences.	CO2	L2	5M
ii) A village in your vicinity is experiencing water scarcity condition. If you were given an opportunity to deal with rainwater harvesting in the area, examine the steps/ methodologies you adopt.		L3	5M
OR			
B) Classify renewable energy resources and write a note on any two renewable and alternate energy resources analyzing their importance for the society in general and environment in specific	CO2	L3	10M
13. A) An area with a population of 500000 is experiencing air pollution. List out the sources, effects and control measures for it in general.	CO3	L3	10M
OR			
B) Analyze the reasons and steps considered at national and international level to tackle the global warming menace.	CO3	L3	10M

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| 14. A) | i) Identify the methodologies to decontaminate the contaminated soils. | CO4 | L2 | 5M |
| | ii) Application of GPS and GIS systems in the field of environment. | | L3 | 5M |
| OR | | | | |
| B) | Inspect the EIA steps to be considered for the establishment of an industry in your area. | CO4 | L2 | 10M |
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| 15. A) | Choose the concept and goals of sustainable development for the development of India | CO5 | L2 | 10M |
| OR | | | | |
| B) | i) Categorize the population explosion patterns with analysis of its consequences on nation and environment. | CO5 | L3 | 5M |
| | ii) Identify any six basic green engineering principles applicable for the conservation of resources and environment. | | | 5M |