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GIET UNIVERSITY, GUNUPUR - 765022

Ph.D. (First Semester) Examinations, January - 2024

23SPPEBO1011 - Advanced Plant Sciences

(Botany)

Time: 3 hrs

Maximum: 70 Marks

The figures in the right hand margin indicate marks.

Answer ANY FIVE Questions

(14 x 5 = 70 Marks)

	Marks
1.a. Define biodiversity. Why biodiversity is important for species?	7
b. Describe on types and utilization of various energy sources.	7
2.a. Write in details on economic importance of algae.	7
b. Explain the growth kinetics of Bacteria in batch culture.	7
3.a. What is ethno botany? Why ethno plants need to be studied?	7
b. Write on importance of ethno plants in development of antiviral medicine.	7
4.a. Give an account of legumes as source food for human.	7
b. Briefly, explain two important methods of crop improvement.	7
5.a. What is ecotoxicology and write on its impact on trophic levels?	7
b. Explain briefly on noise pollution and their impact on society.	7
6.a. Write on role of biotechnology in pollution abatements.	7
b. Illustrate on industrial solid waste management.	7
7.a. Describe briefly on secondary treatment of drinking water.	7
b. Explain on different biotic stresses of plant.	7
8.a. Write on carbohydrate and protein farming.	7
b. Describe on plant based production of antibiotics.	7

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