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GANDHI INSTITUTE OF ENGINEERING AND TECHNOLOGY UNIVERSITY, ODISHA, GUNUPUR (GIET UNIVERSITY)



Ph.D. (Second Semester-Summer) Examinations, May- 2025 23SPPEBO2011 - Biodiversity (Botany)

Time: 3 hrs Maximum: 70 Marks

The figures in the right hand margin indicate marks.

	Answer ANY FIVE Questions.	$(14 \times 5 = 70 \text{ Marks})$	Marks
1.a.	Describe the role of biodiversity in maintaining ecosystem functioning	and stability.	8
b.	Describe the values of biodiversity.		6
2.	Write short notes on: (a) Biodiversity surrogates, (b) Biodiversity remo	te sensing.	14
3.a.	Write down the different methods for surveying and sampling biodivers	sity.	7
b.	Explain the social, economic and ethical aspects of biodiversity conservations	vation.	7
4.	Explain the design, management and challenges of protected areas.		14
5.a.	Describe the statistical methods used in biodiversity studies.		7
b.	Describe the role of biodiversity in providing essential ecosystem servi-	ces.	7
6.a.	Describe the importance of taxonomy in understanding and conserving	biodiversity.	7
b.	Describe the cause and effect of industrialization on air pollution.		7
7.	Write short notes on (a) Renewable resources (b) Non-renewable resources	rces	14
8.a.	Describe the cause, effect and remedies of noise pollution.		7
b.	Write down the causes, impacts and mitigation strategies of climate cha	ange.	7

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