CBCS/B.Sc./Hons./4th Sem./BOTACOR09T/2021



WEST BENGAL STATE UNIVERSITY B.Sc. Honours 4th Semester Examination, 2021

BOTACOR09T-BOTANY (CC9)

PLANT ECOLOGY AND PHYTOGEOGRAPHY

Time Allotted: 2 Hours

The figures in the margin indicate full marks. Candidates should answer in their own words and adhere to the word limit as practicable. All symbols are of usual significance.

- 1. Answer the following questions:
 - (a) Define humus.
 - (b) What are Hekiskotherms?
 - (c) Name one area of India which is concerned with endemic vascular plants.
 - (d) What is sedimentary cycle?
 - (e) What do you mean by ecological efficiency?
 - (f) What is meant by Ecesis?

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2.		Answer any <i>eight</i> questions from the following:	3×8 = 24
	(a)	Give a brief account on different steps of soil formation.	3
	(b)	Write a short note on hydrological cycle with a schematic diagram.	3
	(c)	Write a short note on climax concepts.	3
	(d)	Comment on the different types of biotic interrelationships.	3
	(e)	Define endemism. Give one example. Who had coined the term?	1+1+1
	(f)	Distinguish between grazing and detritus food chain.	3
	(g)	What is the difference between r selected and k selected species?	3
		Characterise with equation and one example each for Exponential and Logistic growth pattern.	$1\frac{1}{2}+1\frac{1}{2}$
	(i)	Define biome. What type of vegetation is observed in tropical rain forests?	2+1
			2+1
		Give the principal adaptational features which protect plants against high temperature injury.	3
	(1)	Give a schematic diagram of the Carbon Cycle.	3



Full Marks: 40

 $1 \times 6 = 6$

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3.		Answer any <i>two</i> questions from the following:	5×2 = 10
	(a)	Explain the succession processes and types.	3+2
	(b)	Give an account on the energy flow in ecosystems.	5
	(c)	Write an account on the effects of wind on plants. Illustrate Shelford's law of tolerance.	3+2
	(d)	Write the phytogeographical divisions of India according to the BSI (1996) with their local vegetation.	2+3

N.B.: Students have to complete submission of their Answer Scripts through E-mail / Whatsapp to their own respective colleges on the same day / date of examination within 1 hour after end of exam. University / College authorities will not be held responsible for wrong submission (at in proper address). Students are strongly advised not to submit multiple copies of the same answer script.

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