

# COOCH BEHAR PANCHANAN BARMA UNIVERSITY

B.A. Honours 3rd Semester Examinations, 2022

# GEOGRAPHY

## CORE-6

Time Allotted: 2 Hours

Full Marks: 40

The figures in the margin indicate full marks.

### GROUP-A

Answer any one question from the following

1.	Define soil profile. Discuss different horizons of a mature soil with suitable diagrams. Differentiate Leaching from Capillary action.	3+8+4
2.	What is Biome? Discuss the characteristics of Taiga Biome in detail.	3+12
3.	What is Ecological Niche? Differentiate between food chain and food web. Discuss the different levels of trophic structure in an ecosystem with suitable examples.	
	GROUP-B	
	Answer any one question from the following	$10 \times 1 = 10$
4.	Discuss the role of climate and organic matter as soil forming factors.	5+5
5.	Explain the roles of soil structure and texture in soil productivity.	5+5
6.	What is Biodiversity? Discuss its importance. Define Biodiversity Hotspot.	2+6+2
	GROUP-C	
	Answer any one question from the following	$5 \times 1 = 5$
7.	What is meant by C:N Ratio?	5
8.	Write a short note on Ecotone.	5
9.	Write a short note on Calcification.	5

### UG/CBCS/B.A./Hons./3rd Sem./Geography/CCGEOH6/2022

#### GROUP-D

 $1 \times 10 = 10$ 

10.	Answer any ten questions from the following:
(a)	Write the full form of GPP.
(b)	In which climatic regime Podzol soils are found?
(c)	What does the word 'Podzol' mean?
(d)	Define Sere.
(e)	In which layer illuviation occurs?
(f)	What is Deep Ecology?
(g)	Which textural class of soil is best suited for water retention?
(h)	How many major textural classes have been defined by the USDA regarding soil classification?
(i)	Name two apex predators of an ecosystem.
(j)	Give an example of in-situ conservation.
(k)	Who gave the concept of '10 percent law'?
(1)	What is Capillary Water?
(m)	The term ecological niche coined by
(n)	Chernozem is Pedocal / Pedalfer type of soil.

(o) Which layer of soil profile faces the effect of eluviation?

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