

MODEL QUESTION PAPER

UG 3rd Semester Honours Examination

Award: B.Sc. (Honours)
Discipline: Geography
Course Type: CC-6 (Hons.)
Course Code: BSCHGEOC302
Course Name: Soil and Biogeography
Full Marks: 40

Time: 2 Hours

The figures in the right-hand margin indicate full marks. Candidates are required to give their answers in their own words as far as practicable. Illustrate the answers wherever necessary.

Q.No		Marks
	SECTION –A (OBJECTIVE TYPE)	
		1×5=5
1.	Answer any <i>five</i> questions: a) Mention the soil texture grades according to International scale. b) What is another name for the layers of soil? c) Which organization publishes the Red Data Book? d) What does Soil pH stand for? e) Mention any two methods of soil conservation. f) Who was the first scientist to define ‘niche’? g) What is Nitrogen fixation in simple terms? h) What are the 5 major types of biomes? i) When was Wildlife Protection Act implemented in India? j) How many Tiger reserves are there in West Bengal?	
	SECTION- B (VERY SHORT TYPE)	
		2×5=10
2.	Answer any <i>five</i> questions: i. What is ‘Biological Oxygen Demand’? ii. What do you mean by species diversity? iii. Define clay- humus complex? iv. What is decalcification? v. Differentiate between Ex-situ and In-situ conservation of species? vi. Correlate number pyramid with biomass pyramid. vii. What do you understand by soil degradation? viii. Define Zonal soil. ix. Name the processes by which laterite soil is formed. x. Mention two importance of wildlife conservation in India.	
	SECTION-C (SHORT TYPE)	
		5×3=15
3.	Answer any <i>three</i> questions: a. State the reasons why chernozem soil is highly fertile. b. Describe physical properties of the soil with reference to colour and porosity? c. Elucidate the types of soil erosion and discuss the appropriate method for conservation of each type. d. Explain in brief different life forms of temperate grassland biome. e. Write a short note on the importance of the study of Biogeography. f. Discuss in detail the major elephant projects in India.	
	SECTION-D (ESSAY TYPE)	
		10×1=10
4.	Answer any <i>one</i> question: A. Compare the profile characteristics of Laterite soil with Podzol soil and enumerate the processes responsible for their differences. B. Describe with diagram the universal model of energy flow. C. Define biogeochemical cycle .Why is Nitrogen cycle considered a perfect cycle-explain.	8+2 2+8