



PRESIDENCY UNIVERSITY

BENGALURU

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End - Term Examinations – May / June 2026

Date: 25-05-2026

Time: 01:00pm – 04:00pm

School: SOCSE	Program: B.Tech. Computer Science	
Course Code : CIV1002	Course Name: Environmental Science and Disaster Management	
Semester: VI	Max Marks: 100	Weightage: 50%

CO - Levels	C01	C02	C03	C04	C05
Marks	10	16	26	28	20

Instructions:

- (i) Read all questions carefully and answer accordingly.
(ii) Do not write anything on the question paper other than roll number.

Part A

Answer ALL the Questions. Each question carries 2marks.

10Q x 2M=20M

1.	Define saprotrophs.	2 Marks	L1	C02
2.	State Lindeman's law of 10%.	2 Marks	L1	C02
3.	Define alpha and beta richness.	2 Marks	L1	C02
4.	Define necrosis.	2 Marks	L1	C03
5.	Define a sanitary landfill.	2 Marks	L1	C03
6.	State two examples of primary pollutants.	2 Marks	L1	C03
7.	Define the focus and epicenter of an earthquake.	2 Marks	L1	C04
8.	State the meaning of a flash flood.	2 Marks	L1	C04
9.	Define a divergent boundary.	2 Marks	L1	C04
10.	List any two man-made causes of earthquakes.	2 Marks	L1	C04

Part B

Answer the Questions.

Total Marks 80M

11.	a.	A fertilizer-intensive agricultural catchment of area 250 ha grows maize. The following data are given: - Nitrogen application rate = 110 kg N/ha/year - Fraction of applied nitrogen leached to groundwater = 20% - Maximum allowable nitrate concentration in groundwater, $C_{\text{max}}=14$ mg/L - Natural background nitrate concentration, $C_{\text{nat}}=3.0$ mg/L (a) Compute the annual grey water footprint of the catchment. (b) Compute the grey water footprint per hectare.	10 Marks	L2	C01
Or					
12.	a.	Describe the pesticides used in agriculture focusing on their types, uses, health and environmental effects.	10 Marks	L2	C01
13.	a.	Describe all stages of ecological succession with a neat flow diagram.	10 Marks	L2	C02
Or					
14.	a.	Describe the vertical and horizontal zonation of a marine ecosystem with neat sketches. Also explain the two ocean life zones.	10 Marks	L2	C02
15.	a.	Explain Solid Waste Management in urban areas.	10 Marks	L2	C03
Or					
16.	a.	Describe the first five steps in Environmental Impact Assessment.	10 Marks	L2	C03
17.	a.	Explain (a) acid rain and (b) ozone depletion.	10 Marks	L2	C03
Or					
18.	a.	Describe all the classes of municipal solid waste.	10 Marks	L2	C03
19.	a.	Classify types of floods and explain their impacts, flood management strategies.	20 Marks	L3	C04
Or					
20.	a.	Prepare short notes on cyclone management and mitigation strategies as outlined by the NDMA.	20 Marks	L3	C04
21.	a.	Describe the theories on population growth and age pyramids existing in the global world.	20 Marks	L2	C05
Or					
22.	a.	Describe the objectives and salient features of the Wildlife Protection Act, 1972.	20 Marks	L2	C05