OPC:	RA23BSCAG112	

Reg.					
No.					

AR - 23



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

B. Sc. (Ag.) (Fourth Semester) Examinations, April – 2025 **FO-222 – Environmental Studies and Disaster Management**

Time: 2 hrs	Maximum: 50 Marks

The figures in the right hand margin indicate marks.

PART - A

Q.1.	Fill in the blanks with s	uitable v	word / figure.	$(0.5 \times 10 = 5 \text{ Marks})$
a. b. c. d. e. f. g. h. i.	Heat wave is declared w Wildlife (Protection) Ac	hen the to t was enample of I I in the years of con- ublished gas I he sudde igh sea v	emperature exceeds Degree Cel acted in the year	sius. ls and objects or debris down a slope. e or volcanic eruption.SS
j.			or to the geograpment area of o	
Q. 2.	Define (or) Explain the	followi	ng in one or two sentences.	$(1 \times 5 = 5 \text{ Marks})$
c. d.	Greenhouse effect Eutrophication Petro Crops Allogenic Succession Pyroclastic flow			
Q3.	Match the following			$(0.5 \times 10 = 5 \text{ Marks})$
	Column – A		Column – B	
(a)	NDMA	(i)	Disaster caused by release of methyl is	ocyanate
(b)	Richter Scale	(ii)	Flow of molten lava along with ash, sm speed	noke and gases at a high
(c)	El Nino &La Nina	(iii)	Strengthening existing structures to wit	thstand disasters
(d)	Cloud Seeding	(iv)	Indian agency for disaster risk reductio	n and preparedness
(e)	Pyroclastic Flow	(v)	An organisation dealing with observance meteorological conditions	ce and monitoring of
(f)	Bhopal Gas Tragedy	(vi)	Measures magnitude of earthquakes	

(g) NDRF (vii) An Organisation dealing with disaster response activities
 (h) Cyclone Warning Centre (viii) Climatic phenomenon disrupting global weather patterns due to ocean temperature rise
 (i) IMD (ix) Agency responsible for issuing alerts on tropical storms in coastal India
 (j) Retrofitting (x) Artificial induction of rain using silver iodide

Q4. Write True or False against each statement

 $(0.5 \times 10 = 5 \text{ Marks})$

- a. Full form of CNG is Certified Natural gas.
- b. Mars id considered as Blue Plante.
- c. Botanical Gardens are examples of Exsitu Conservation.
- d. The chemical used in cloud seeding to induce artificial rain is Silver iodide.
- e. Hazard mapping is a key technique used in assessing and planning disaster-prone areas.
- f. A Cyclone is a rapidly rotating storm system characterized by a low-pressure center and thunderstorms.
- g. NDMA is the official nodal agency for disaster management in India.
- h. Blue-baby syndrome is caused by Nitrate pollution.
- i. Energy pyramid is never upright.
- j. The concept of Sustainable development focuses on meeting present needs without compromising future generations.

PART - B

Attempt ANY FIVE questions. All question carries equal marks

 $(6 \times 5 = 30 \text{ Marks})$

- 5. How different types of drought conditions leads to poor socioeconomic condition of people? What possible measures can be taken to overcome the same?
- 6. Soil Pollution is a measure threat to agricultural production. Explain the causes and propose suitable control measures.
- 7. Define Earthquake. What are the causes of earthquake? Explain the possible risk reduction measures.
- 8. Explain the levels of Biodiversity. What are the different approaches of conservation of Biodiversity?
- 9. What are the functional attributes of Ecosystem? Explain the types of ecological pyramids with diagrams and suitable examples.
- 10. Write down the Causes, Impact and Control Measure of
 - a) Ozone Layer Depletion
 - b) Acid Rain

--- End of Paper ---