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FIFTH SEMESTER (CUFYUGP) DEGREE EXAMINATION, NOVEMBER 2026

BOTANY

BOT5EJ302(1) ENVIRONMENTAL MONITORING & DISASTER MANAGEMENT

2024 Admission onwards

Maximum Time :2 Hours | **Maximum Marks :70**

Section A

All Questions can be answered. Each Question carries 3 marks (Ceiling : 24 Marks)

1	Define SCADA. How is it useful in monitoring environmental data?
2	What is air quality monitoring?
3	What are air pollutants and their sources?
4	Define remote sensing in air quality monitoring.
5	What is the role of Environmental Impact Assessment (EIA)
6	What is Disaster Risk Reduction (DRR)?
7	Define Vulnerability and Resilience in the context of community disaster management.
8	Differentiate between Natural Disasters and Man-made Disaster.
9	What is Risk Mapping? Name one tool used to create risk maps.
10	What is Climate Change Adaptation (CCA)?

Section B

All Questions can be answered. Each Question carries 6 marks (Ceiling : 36 Marks)

11	Discuss the emerging challenges of industrialization and population growth on environment
12	Outline the key environmental monitoring laws and regulations in India
13	Describe the common indicators of soil quality and standards,
14	Detail the sampling and analysis techniques of air pollutants.
15	Explain the components of effective evacuation planning.
16	Describe the Sustainable Development Goals (SDGs) in disaster recovery.
17	Outline the structural mitigation strategies of disaster management.
18	Asses the International Humanitarian Response Mechanisms

Section C

Answer any ONE .Each Question carries 10 marks (1x10=10 Marks)

19	Apply and evaluate the techniques of sampling and interpretation of data analysis in environmental monitoring.
20	Elaborate the analytical methods for assessing the water quality parameters of the following pH, DO, BOD and TCC.