

MAHARASHTRA AGRICULTURAL UNIVERSITIES EXAMINATION BOARD, PUNE  
SEMESTER END THEORY EXAMINATION

B.Sc. (Hons.) Agriculture/ Horticulture/ Agri. Business Management/ Forestry/ Community Science  
B.Tech. (Agril. Engineering/ Biotechnology/ Food Technology)/ B.F.Sc. (Hons.)

[U. AR. Sixth Deans' Committee Recommended Syllabus]

Semester : II (New)	Term : Second	Academic Year : 2024-25
Course No. : VAC-121	Title : Environmental Studies and Disaster Management	
Credits : 3(2+1)	Time : 10:00 to 13:00 hrs.	Total Marks : 80
Day & Date : Wednesday, 25.06.2025		

Note : 1. Solve ANY EIGHT questions from SECTION 'A'.  
2. All questions from SECTION 'B' are compulsory.  
3. All questions carry equal marks.  
4. Draw neat diagram wherever necessary.

SECTION 'A'

- Q.1 a) Define Environmental Science and describe in brief its importance.  
b) Describe in short different layers of atmosphere.
- Q.2 Write down in detail the need of Forest in today's era and the causes behind deforestation.
- Q.3 a) Define Ecosystem and mention in brief its functions.  
b) Explain in short about different types of ecosystems.
- Q.4 Define Biodiversity and describe in detail Biogeographical zones of India.
- Q.5 a) Define Pollution and mention in brief its types.  
b) Explain in short about the effects of water pollution.
- Q.6 Define Disaster and explain in detail its types.
- Q.7 a) Comment on bad effects of industrial waste.  
b) Explain in short about different causes of air pollution.
- Q.8 a) Mention in brief the interrelation between Environment and Human health.  
b) Describe in short the classification of solid wastes.
- Q.9 a) Describe in short the National Disaster Management Authority.  
b) Explain in short the Environment (Protection) Act.
- Q.10 Write short notes on (Any Two):  
a) Global warming  
b) Role of Armed Forces in disaster management  
c) Rainwater harvesting

(P.T.O.)

SECTION 'B'

Q.11 Define the following terms:

- 1) Atmosphere
- 2) Drought
- 3) Autotrophs
- 4) Food chain
- 5) Carbon sequestration
- 6) Pioneers
- 7) Ecology
- 8) Desertification

Q.12 Match the pairs:

'A'

'B'

- |  |                   |
|--|-------------------|
| 1) Air (Prevention & Control of Pollution) Act | a) Human          |
| 2) Producers                                   | b) 1952           |
| 3) Forest (Conservation) Act                   | c) 1972           |
| 4) Omnivores                                   | d) Microorganisms |
| 5) Family Planning Program                     | e) 1986           |
| 6) Environment (Protection) Act                | f) 1981           |
| 7) Saprotrophs                                 | g) Plants         |
| 8) Wildlife (Protection) Act                   | h) 1980           |

