

**POST GRADUATE DIPLOMA IN
ENVIRONMENTAL AND OCCUPATIONAL
HEALTH (PGDEOH)**

Term-End Examination

June, 2022

MEVE-003 : AGRICULTURE AND ALLIED SECTOR

Time : 3 hours

Maximum Marks : 100

Note : Attempt any **six** questions from Section A. Each question carries 5 marks. Attempt any **seven** questions from Section B. Each question carries 10 marks.

SECTION A

1. (a) Mention any four characteristics of an insecticide. 2
- (b) Describe the effect of pesticides on human health. 3
2. Write short notes on any **two** of the following : $2 \times 2 \frac{1}{2} = 5$
 - (a) Eutrophication
 - (b) Heavy metal pollution
 - (c) Water erosion

3. Human intervention has resulted in soil degradation. Justify this statement with suitable examples. 5
4. Describe the impact of invasive species on agriculture. 5
5. Explain the role of livestock in greenhouse gas emission. 5
6. Describe the occupational health effects due to aquaculture. 5
7. Explain manure-handling for different solid and liquid wastes. 5
8. Write short notes on any **two** of the following : $2 \times 2 \frac{1}{2} = 5$
- (a) Fate of pesticide in the environment
 - (b) Livestock and aquaculture
 - (c) Desertification and human health

SECTION B

9. Define biological pest control. Explain various agents of biological pest control. $2+8=10$
10. (a) Explain the key principles of sustainable agriculture. 5
(b) Describe Integrated Pest Management. 5
11. What are biofertilizers ? Discuss various types of biofertilizers. $2+8=10$
12. Write note on any *two* of the following : $5+5=10$
(a) Conservation agriculture
(b) Land degradation
(c) Botanicals
13. Describe the objectives and scope of organic farming. Explain the role of organic farming in preserving the environment. $5+5=10$
14. Explain the concept and types of traceability in agriculture. $5+5=10$
15. Describe the various causes and symptoms of foodborne illnesses. $5+5=10$

- 16.** Define zoonoses and describe the routes of its transmission. *2+8=10*
- 17.** What is food waste and loss ? Discuss various strategies for reducing food loss and waste. *2+8=10*
- 18.** Explain various methods involved in Genetically Modified Organism production. Briefly discuss the safety and ethical issues associated with GM crops. *5+5=10*
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