

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

Term-End Examination

February, 2021

MEVE-003 : AGRICULTURE AND ALLIED SECTOR

Time : 3 hours

Maximum Marks : 100

Note : Attempt both Section A and Section B.
Section A – 30 marks, Section B – 70 marks.

SECTION A

Answer any **six** questions. Each question carries five marks :

$$6 \times 5 = 30$$

1. What are pesticides ? Classify pesticides on the basis of types of pests and mode of action. $1+2+2=5$

2. Write short notes on any **two** of the following :

$$2 \times 2 \frac{1}{2} = 5$$

- (a) Nitrate Pollution
- (b) Eutrophication
- (c) Heavy Metal Pollution

3. 'Rearing of livestock may affect the human health through physical, chemical and biological hazards.' Justify the statement. 5
4. Define any *five* of the following : 5×1=5
- (a) Zoonotic Diseases
 - (b) Organic Waste
 - (c) Fertilizers
 - (d) Greenhouse Gases
 - (e) Carbon Footprint
 - (f) Occupational Health Hazard
5. List and explain the occupational hazards in aquaculture. 5
6. Explain the significance of Biological pest control in sustainable agriculture. 5
7. What are botanicals ? Describe their advantages and limitations. 5
8. What is agriculture traceability ? Explain traceability in agriculture and food supply chain. 5

SECTION B

Answer any **seven** questions. Each question carries ten marks :

$7 \times 10 = 70$

9. Describe the stages of food loss and food waste in the food chain with the help of suitable examples. Also describe the strategies for reducing food loss and waste.

$5+5=10$

10. Give a schematic chart of the steps involved in the production of Genetically Modified Organisms. Describe possible benefits of GM crops.

$3+7=10$

11. What is desertification ? Describe various causes of desertification.

$3+7=10$

12. Write short notes on any **two** of the following : $2 \times 5 = 10$

(a) Occupational Hazards of Pesticides

(b) Sustainable Agriculture

(c) Phosphate Solubilising Biofertilizers

13. What is conservation tillage ? Write advantages and disadvantages of no tillage and reduced tillage.

$3+7=10$

14. Why is chemical farming harmful ? Why should we promote organic farming ? Give reasons.

$5+5=10$

- 15.** Describe soil erosion. Explain how soil erosion affects the soil productivity. *2+8=10*
- 16.** What are Invasive Alien Species ? Describe various steps/methods to prevent IAS. *3+7=10*
- 17.** Explain food poisoning and food infection. Describe sources and control measures to prevent food borne illness. *5+5=10*
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