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MEVE - 003

POST GRADUATE DIPLOMA IN ENVIRONMENTAL AND OCCUPATIONAL
HEALTH (PGDEOH)

Term-End Examination

December, 2019

MEVE - 003 : AGRICULTURE AND ALLIED SECTOR

Time : 3 hours

Maximum Marks : 100

Note : Answer all questions as per the instructions given in each Section.

SECTION - A

Attempt any six questions. Each question carries five marks.

5x6=30

1. What is soil erosion ? Identify important causes of land degradation.
2. Define Pesticide. Describe effects of pesticide on human health.
3. Describe the predominant Green house gases produced by livestock sector.
4. Identify various sources of aquaculture pollutants. What are the effects of these pollutants on human health ?
5. What is Biological Pest Control ? Identify the factors governing biological pest control.
6. What is conservation agriculture ? What are the principles of conservation agriculture ?
7. Describe the concept of traceability. Identify consumers concerns regarding traceability.
8. Differentiate between food poisoning and food infections. Describe common symptoms of food borne illness.

SECTION - B

Attempt any seven questions. Each question carries 10 marks.

10x7=70

1. Describe the impact of fertilizers on environment.
2. What are invasive alien species ? Describe the impacts of IAS on :
 - (a) Ecosystem and Biodiversity
 - (b) Public health

3. Describe the effects of livestock rearing on :
 - (a) Environmental health
 - (b) Soil, air and water
4. Describe solid manure handling and liquid manure handling with suitable examples.
5. Define IPM. Explain role of IPM in achieving food security.
6. What are biofertilizers ? Describe types of biofertilizers on the basis of symbiont, non symbiont system.
7. What is organic farming ? Describe the role of organic farming in ensuring environment health.
8. What is zoonoses ? Describe various strategies for prevention and control of zoonoses.
9. Write short notes on :
 - (a) Strategies for reducing food loss.
 - (b) Possible benefits and risk associated with GM crops.



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

Term-End Examination

June, 2020

MEVE-003 : AGRICULTURE AND ALLIED SECTOR

Time : 3 Hours

Maximum Marks : 100

Note : (i) Attempt any six questions from Section A.

Each question carries 5 marks.

*(ii) Attempt any seven questions from
Section B. Each question carries
10 marks.*

Section—A

5×6=30

1. Classify pesticides based on the following :

- (i) Types of pests
- (ii) Chemical nature

P. T. O.

2. What is Eutrophication ? Explain with suitable examples.
3. What are the different types of waste generated from livestock farm ? How these wastes can be used in improving soil and environmental health ?
4. Identify various occupational health hazards posed by rearing of livestock and aquaculture. Explain any *one* of them briefly.
5. What is Microbial Control ? Describe microbial control of pest with the help of bacteria, fungi and virus with the help of suitable examples.
6. What is Vermicompost ? Explain briefly, how it is made and its uses.
7. Describe the types of traceability in agriculture and food supply chain. What are various technological innovations on traceability ?
8. What are various modes of transmission of zoonoses ? Describe the role of domicialated, wild and cold-blooded animals in transmission of zoonoses.

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Section—B

7×10=70

1. Describe various biophysical indicators of land degradation.
2. Discuss various methods or options to reduce the environmental, social and economical impacts of invasive alien species.
3. Write short notes on any *two* of the following :
 - (i) GHGs from livestock
 - (ii) Source and impacts of aquaculture pollutants
 - (iii) Solid and liquid manure handling
4. What are manures ? Describe bulky organic manure and concentrated organic manures with their potential benefits.
5. Write the advantages and disadvantages of conservation tillage and no tillage.
6. Differentiate between chemical farming *vs.* organic farming. Do you think organic farming helps preserving environment, if yes how ?

P. T. O.

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7. Define and classify food borne illnesses/ diseases. Identify various strategies for control of food borne illness.
8. Define food waste and food loss. Describe the impacts of food loss waste and strategies for reducing food waste.
9. What are genetically modified crops ? Describe possible benefits and risks associated with GM crops on environment and human health.

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**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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