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MEVE-003

**POST GRADUATE DIPLOMA IN
ENVIRONMENTAL AND
OCCUPATIONAL HEALTH (PGDEOH)
Term-End Examination
June, 2021**

**MEVE-003 : AGRICULTURE AND ALLIED
SECTORS**

Time : 3 Hours

Maximum Marks : 100

Note : Answer both Section A and Section B.
Section A = 30 marks and Section B = 70
marks.

Section—A

Note : Answer any *six* questions. All the
questions carry equal marks.

1. Describe the occupational hazards of pesticide
consumption. 5

2. Why fertilizers are essential input for boosting
crop productivity ? What are the disadvantages
of excessive fertilizers use ? 2.5 + 2.5 = 5
3. Define the following in *one* to *two* sentences
each : 5 × 1 = 5
- (i) Soil erosion
- (ii) Land degradation
- (iii) Desertification
- (iv) Drought
- (iv) Land management
4. Differentiate between native and non-native
species with suitable examples. Describe
invasion pathway. 2.5 + 2.5 = 5
5. Describe the effects of livestock rearing on
environmental health. 5
6. What is aquaculture ? Enlist the various
sources of aquaculture pollutants. 2 + 3 = 5
7. Describe liquid manure handling and solid
manure handling. 2.5 + 2.5 = 5

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8. What is microbial control ? Explain with suitable examples the role of bacteria and fungi as bio-control agents. $2 + 3 = 5$

Section—B

Note : Answer any *seven* questions. All the questions carry equal marks.

1. Give key principles of sustainable agriculture. Describe the role of bio-pesticides in sustainable agriculture. $5 + 5 = 10$
2. Write short notes on the following : $2.5 \times 4 = 10$
 - (i) Farmyard manure
 - (ii) Compost
 - (iii) Vermicompost
 - (iv) Green manure
3. What are biofertilizers ? Describe symbiotic and non-symbiotic biofertilizers with suitable examples. $3 + 7 = 10$

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4. What are the various agricultural activities that lead to land degradation ? How can soil erosion be controlled ? $5 + 5 = 10$
5. Write short notes on any *two* of the following : $5 \times 2 = 10$
 - (i) Agricultural traceability
 - (ii) Food-borne diseases
 - (iii) Prevention and control of zoonosis
6. Describe various solutions to reduce food loss and waste. 10
7. Describe prospects and problems of genetically modified crops. $5 + 5 = 10$
8. 'The major contributors of methane gas amongst the livestock are the prominent species.' Justify the statement. 10
9. Describe the challenges to agricultural environment management. 10

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