



**Post Graduate Diploma in Agricultural Extension Management (PGDAEM)**  
**Final examination , I semester 2014-15 ( July 2015)**  
**AEM 205: SUSTAINABLE LIVELIHOOD IN AGRICULTURE (3 Credits) Maximum**  
**Marks- 70** **Duration- 2 ½ hours**  
**ANSWER ANY FIVE QUESTIONS. ALL QUESTIONS CARRY EQUAL MARKS**

1. What is sustainable agriculture? Explain the elements of sustainable agriculture?
2. Write briefly on **any four** of the following:
  - a. Mechanical methods of pest control
  - b. Environmental Pollution
  - c. Integrated Nutrient Management & its objectives
  - d. Sources of organic farming
  - e. Agro-forestry Systems
  - f. Intercropping and Mixed cropping
3. Briefly discuss the plant criteria for scheduling of irrigation to crops? Suggest practices for crop production under conditions of soil and water salinity?
4. Write short notes on **any four** of the following.
  - a. Culture of fin fishes in Cages
  - b. Induced breeding
  - c. Design and construction of fish farm
  - d. Selection Criteria of Candidate Species for Culture
  - e. Smoking of fish and prawns
  - f. Importance of database and Geographical Information System in fisheries sector
5. Discuss the various options for sustainable development of marine fisheries in India?
6. Write on status of marine fisheries in India? Discuss the sustainability concerns of Indian fisheries?
7. Write short notes on **any four** of the following.
  - a. Different forms of Mixed farming
  - b. Importance of bio security management in livestock health and disease management
  - c. Nutrient requirement of calves
  - d. Livestock waste management for sustainable livestock production
  - e. Water requirement of dairy cattle
  - f. Application of biotechnology in animal production
8. Mention various categories of feed resources? Write the importance of agro-industrial and non-conventional feed resources?
9. Discuss the functions of livestock in the sustainable rural livelihood security?

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January, 2015

**Post Graduate Diploma in Agricultural Extension Management (PGDAEM)**

**2nd Semester 2013-14 Term End Examinations &**

**Supplementary Examinations of 2007-08 to 2012-13**

**AEM-205: Sustainable Livelihood in Agriculture (3 Credits)**

**Max. Marks-70**

**Duration - 2 ½ hrs.**

ANSWER **ANY 5 QUESTIONS**. ALL QUESTIONS CARRY EQUAL MARKS

1. Write briefly about **any four** of the following :
  - a. Vermicompost
  - b. Watershed
  - c. Integrated Nutrient Management
  - d. On-farm and Off-farm sources of organic manures
  - e. Bio-fertilizers and their benefits
  - f. Causes of water logging and harmful effects
2. What you understand by the term mixed farming and mention the major kinds of mixed farming ? Explain **any one** of the mixed farming with an example.
3. Explain in detail the potential effects of major environmental pollution on crop productivity.
4. Write short notes on **any four** of the following.
  - a) Types of farming systems for shrimp culture
  - b) Advantages and disadvantages of cage culture of fin fishes
  - c) Concerns for sustainable development of Indian marine fisheries
  - d) Objectives for development and management of fisheries and aquaculture
  - e) Important fishery by-products
  - f) Input and Output controls in marine fisheries management
5. What is meant by fish seed production? Explain integrated fish farming.
6. Explain what is fish post harvest technology and mention important fishery by-products and also explain briefly **any one** of the fishery by-products.

7. Write short notes on **any four** of the following.
- a) Merits and limitations of ITKs for promoting sustainable livestock development
  - b) Output and Input functions of livestock in the sustainable rural livelihood security
  - c) Nutrient requirement of calves
  - d) Livestock waste management to control pathogens in production system
  - e) Biotechnology application in animal production
  - f) Methods for prevention and control of infectious diseases of livestock
8. List out the conventional and Non-Conventional Feed Resources (**NCFR**). Discuss briefly the constraints in utilization of Non-Conventional Feed Resources.
9. List out the desired characteristics of a ration. Briefly discuss **any one** of the following:
- a. Maintenance ration
  - b. Extra allowance during pregnancy
  - c. Extra ration for milk production

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December-2014

**Post Graduate Diploma in Agricultural Extension Management (PGDAEM)**

**2nd Semester 2013-14 Term End Examinations &  
Supplementary Examinations of 2007-08 to 2012-13**

**AEM-205: Sustainable Livelihood in Agriculture (3 Credits)**

**Max. Marks-70**

**Duration - 2 ½ hrs.**

ANSWER ANY 5 QUESTIONS. ALL QUESTIONS CARRY EQUAL MARKS

1. Write short notes on any **four** of the following.
  - a) On-farm and Off-farm sources of organic manures
  - b) Agri-silvicultural and Silvi-pastoral systems
  - c) Bio-fertilizers and their benefits
  - d) Causes of water logging and harmful effects
  - e) Plant criteria for scheduling irrigation
  - f) Cropping systems
2. Briefly discuss various components of Organic Pest Management.
3. Explain in detail the potential effects of major environmental pollution on crop productivity.
4. Write short notes on any **four** of the following.
  - a) Types of farming systems for shrimp culture
  - b) Advantages and disadvantages of cage culture of fin fishes
  - c) Concerns for sustainable development of Indian marine fisheries
  - d) Objectives for development and management of fisheries and aquaculture
  - e) Important fishery by-products
  - f) Input and Output controls in marine fisheries management
5. Write on grow-out pond management for higher production of culture carp in static ponds.
6. What do you understand by "Value Addition"? Discuss how adding value to fish and fish products is beneficial.
7. Write short notes on any **four** of the following.
  - a) Merits and limitations of ITKs for promoting sustainable livestock development
  - b) Output and Input functions of livestock in the sustainable rural livelihood security
  - c) Mixed Farming systems
  - d) Livestock waste management to control pathogens in production system
  - e) Biotechnology application in animal production
  - f) Methods for prevention and control of infectious diseases of livestock
8. List out the conventional and Non-Conventional Feed Resources. Discuss briefly the constraints in utilization of Non-Conventional Feed Resources (NCFR).

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**Post Graduate Diploma in Agricultural Extension Management (PGDAEM)  
EXAMINATION – July, 2014**

**AEM 205: Sustainable Livelihood in Agriculture (3 CREDITS)**

**MAX MARKS-70**

**DURATION- 2 ½ hrs.**

Answer any five of the following questions. All questions carry equal marks

- 1) Sustainable Agriculture is of paramount importance under the Indian context. As an officer of the development, briefly explain various elements of sustainable agriculture? Also analyse the contribution of farming systems concept in achieving sustainability in agriculture with example where ever necessary?
- 2) Write short notes on any four:
  - a) Multi-functional agro forestry systems
  - b) Methods of organic Manure/waste recycling
  - c) Criteria considered for scheduling irrigation in crops
  - d) Functions of livestock in the sustainable rural livelihood security
  - e) Nutrient requirement of calves
  - f) Paddy - Poultry – Fish culture
- 3) What do you understand by integrated pest management (IPM)? Explain briefly the components of IPM with special focus on biological control of pests citing examples?
- 4) Explain in detail your perception on the importance/need of Bio-diversity for sustainable agriculture to prevent environmental pollution with examples?
- 5) What do you understand by crop – livestock interactions and explain in detail the kinds of Mixed farming systems with examples?
- 6) Write in brief on any four:
  - a) Livestock feed resources
  - b) Culture of fresh water prawns
  - c) Salting or curing methods of fish
  - d) Polyculture
  - e) Objectives of farming system
  - f) Integrated Nutrient Management (INM)
- 7) Livestock is an important contributor to sustainable agriculture. In view of this discuss the strategies to control the livestock from infectious diseases?
- 8) Based on your field experience, critically analyse the role/importance of indigenous technical knowledge (ITKS) in sustainable agriculture with relevant examples?
- 9) Value addition is important to augment/increase the income of the farmers. Write in detail the value addition in fisheries to improve the livelihoods of the fishermen?

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**Post Graduate Diploma in Agricultural Extension Management (PGDAEM)  
SECOND SEMESTER EXAMINATION - 2012– 13 BATCH  
JANUARY 2014**

**Course No. 205 : SUSTAINABLE LIVELIHOOD IN AGRICULTURE (3 credits)**

Maximum Marks : 70

Duration : 2½ Hrs.

Answer any five questions. All questions carry equal marks.

1. Organic farming for sustainable crop production – briefly explain.
2. What you understand by the term mixed farming and mention kinds of mixed farming and also explain any **one** of the mixed farming with an example.
3. Write briefly about the following :
  - a. Vermicompost
  - b. Watershed
  - c. Integrated Nutrient Management
4. List out the objectives of farming system and explain any **four** of the objectives.
5. Explain what is fish post harvest technology and mention important fishery by-products and also explain briefly any **one** of the fishery by-products.
6. What is meant by fish seed production and explain in the graded fish farming.
7. Briefly discuss the strategies for control of live stock from infectious diseases.
8. Write short notes on any **three** of the following :
  - a) Breeding of fresh water prawns.
  - b) Polyculture
  - c) Green house effect
  - d) Characteristics of NCFR
  - e) Merits of ITKS

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