Class: 9th

Chapter: 10

# POULTRY HUSBANDRY

## **Exercise Solved**

- 1. What is the main purpose of poultry farming?
- a) Growing crops
- **⋄** b) Raising birds for meat and eggs
- c) Producing dairy products
- d) Making leather
- 2. Which province in Pakistan is the largest producer of poultry?
- a) Sindh
- **⋄** b) Punjab
- c) Khyber Pakhtunkhwa
- d) Balochistan
- 3. What is the purpose of vaccination in poultry?
- a) To increase egg size
- **⋄** b) To protect birds from diseases
- c) To make birds grow faster
- d) To change feather color
- 4. Which feed is given to young chicks for their early growth?
- a) Layer feed
- b) Broiler feed

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- d) Finisher feed
- 5. Which modern technology is used to maintain temperature in poultry houses?
- a) Automated feeding systems
- **⋄** b) Climate control systems
- c) Robotic cleaners
- d) Genetic improvements
- 6. Which of the following is a fancy bird?
- a) Broiler chicken
- **⋄** b) Silkie chicken
- c) Layer hen
- d) Turkey
- Solved Short Questions Poultry Farming
- 1. What is the difference between broiler and layer farming?
  - Broiler farming involves raising chickens mainly for meat production.
  - Layer farming involves raising hens for egg production.
     Broilers grow quickly and are sold at a young age, while layers are kept longer to lay eggs.
- 2. Name two diseases that affect poultry birds.
  - Newcastle Disease
  - Avian Influenza (Bird Flu)

    These diseases are highly contagious and can cause serious losses in poultry farms.
- 3. Why is proper feed storage important in poultry farming?

Proper feed storage prevents:

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- Moisture and fungal contamination
- Nutrient loss and spoilage
- Pest infestation

It ensures that poultry receive **safe and nutritious feed** for healthy growth.

#### 4. What is the role of vaccination in preventing poultry diseases?

Vaccination protects poultry birds by:

- **Building immunity** against deadly viral and bacterial infections
- Reducing disease outbreaks on farms
- Improving overall flock health and productivity

Long Question 1: Explain the importance of poultry farming in Pakistan's economy.

#### **¥** Introduction:

Poultry farming is one of the **fastest-growing** sectors of agriculture in Pakistan. It plays a key role in providing **nutrition**, **employment**, **and income**, especially for small farmers and the urban middle class.

## **&** Economic Importance of Poultry Farming

#### 1. Contribution to National Economy:

- o Poultry contributes significantly to the agriculture GDP.
- It provides affordable protein in the form of meat and eggs to millions of people.

#### 2. Employment Generation:

Over **1.5 million people** are directly or indirectly employed in the poultry sector (farmers, transporters, feed producers, etc.).

#### 3. Fast Turnover & Low Investment:

O Poultry farming gives **quick returns** (broilers ready in 6 weeks), making it ideal for small investors.

#### 4. Reduction of Protein Deficiency:

o Eggs and chicken are major sources of **animal protein** for the population.

#### 5. Support to Allied Industries:

• Feed mills, hatcheries, medicine, packaging, and transport businesses benefit from poultry farming.

#### 6. Export Potential:

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 Pakistan can export processed poultry meat and eggs to Gulf and Middle Eastern countries if standards improve.

#### **Conclusion:**

Poultry farming supports **food security, job creation, and industrial growth**. With better planning and support, it can become a strong pillar of Pakistan's economy.

Long Question 2: Discuss the challenges faced by poultry farmers and suggest measures to overcome them.

## **∆**□ Challenges in Poultry Farming

- 1. Disease Outbreaks:
  - Viral diseases like Newcastle and Avian Influenza spread rapidly and kill many birds.
- 2. Lack of Veterinary Services:
  - o Small farmers cannot access regular vaccination and medical support.
- 3. Fluctuating Feed Prices:
  - o High prices of maize, soybean, and feed additives affect profitability.
- 4. Poor Biosecurity:
  - o Many farms lack hygiene practices, leading to contamination.
- 5. Limited Cold Chain & Processing Units:
  - o Poor storage and transportation reduce shelf life of poultry products.
- 6. Market Exploitation by Middlemen:
  - o Farmers don't get fair prices due to unorganized marketing.

## **★** Measures to Overcome Challenges

- 1. Regular Vaccination Programs:
  - o Ensure all farms follow vaccination schedules with government support.
- 2. Veterinary Extension Services:
  - o Mobile vet clinics and training workshops in rural areas.
- 3. Subsidized Feed & Inputs:
  - o Government should control feed prices and ensure quality supply.
- 4. Training in Biosecurity:

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- o Farmers should be trained to follow disinfection and isolation protocols.
- 5. Cold Storage & Processing Facilities:
  - o Encourage investment in poultry processing plants and cold chains.
- 6. Poultry Farmer Cooperatives:
  - o Help small farmers sell directly to markets and processors.

#### **♦** Conclusion:

By addressing these challenges through **policy support, training, and infrastructure**, poultry farming can become safer, more profitable, and sustainable for Pakistan's economy.

Long Question 3: How can modern technology improve the production, processing, and marketing of poultry products?

#### **★ 1. Production Improvements**

- Automated Feeding and Watering Systems:
  - o Reduce labor and ensure uniform nutrition.
- Climate-Controlled Housing:
  - Keeps ideal temperature and humidity to boost bird growth.
- Monitoring Sensors and Apps:
  - o Track bird health, feed intake, and weight using mobile alerts.

## **2.** Processing Improvements

- Modern Slaughterhouses & Packaging Units:
  - o Ensure hygienic meat processing and proper grading of products.
- Cold Chain Systems:
  - Use of refrigeration for storage and transport to reduce spoilage.
- Egg Washing and Sorting Machines:
  - o Clean and classify eggs automatically for sale.

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#### **◆**) 3. Marketing Improvements

- Online Marketplaces & Apps:
  - o Farmers can sell eggs and meat directly to customers or retailers.
- Digital Weighing & Billing:
  - o Ensure transparency in transactions at wholesale markets.
- Branding and Labelling:
  - o Create trust with consumers using quality assurance and expiry details.

## **Conclusion:**

Modern technology makes poultry farming more **efficient**, **hygienic**, **and profitable**. It helps farmers **reduce losses**, **improve product quality**, **and reach wider markets** — essential for future growth.

• Inquisitive Question 1: Why do some poultry farms use automated systems for feeding and watering birds? How does it help farmers and the birds?

#### ☐ Reasons for Using Automated Systems:

- 1. Labor Saving:
  - o Reduces the need for manual feeding and checking, saving time and effort.
- 2. Consistency in Feeding:
  - o Ensures birds get the right amount of feed and water regularly, even at night.
- 3. Better Growth & Health:
  - o Balanced nutrition leads to faster and healthier growth of poultry.
- 4. Clean and Hygienic:
  - Prevents contamination that can come from human handling or open containers.
- 5. Reduces Wastage:
  - o Precise feed delivery minimizes feed loss, saving money.

#### **Conclusion:**

Automated systems make poultry farming more **productive**, **economical**, **and safe** for both birds and farmers.

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Inquisitive Question 2: What happens if birds are not vaccinated on time?

## **△** Effects of Missing Vaccination in Poultry:

- 1. Disease Outbreaks:
  - o Birds become vulnerable to viral and bacterial diseases like Newcastle or Infectious Bronchitis.
- 2. High Mortality Rate:
  - o Infected birds die quickly, causing major financial losses.
- 3. Reduced Egg and Meat Production:
  - o Sick birds eat less, grow slowly, and stop laying eggs.
- 4. Risk to Nearby Farms:
  - o Unvaccinated flocks can spread disease to other farms in the area.
- 5. Increased Treatment Cost:
  - o Treating disease is more expensive than preventing it.

## **♦** Conclusion:

Timely vaccination is **essential for the health, productivity, and safety** of poultry farms. Prevention is always better than cure in poultry farming.

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