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|  |
| --- |
| YEAR 8 AGRICULTRE  LESSON ACTIVITIES  **Term 1: Week 8 – Week 11** |

|  |  |
| --- | --- |
| **AGRICULTURE** | |
| TOPIC: POULTRY | Section 5: Hens in Lay and Broody Hens |
| Objectives:   1. Identify the signs of a hen in lay 2. Identify the signs of a broody hen 3. State what should be done with a broody hen | |

**Week 8 Lesson 1**

1. Copy notes on Section 5 (Poultry notes. Pdf) to your exercise book (page 19 – 21)
2. Read and highlight important points
3. Do Exercise below

Exercise 1

1. Define the following:
   1. Broody hen: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

* 1. Hen in Lay: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

* 1. Cull: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
  2. Slaughter: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Complete the table by list 3 signs of a “broody hen” and a : “hen in lay”

|  |  |
| --- | --- |
| Broody Hen | Hen in Lay |
| 1. | 1. |
| 2. | 2. |
| 3. | 3. |

1. A farmer is raising chickens to provide meat but observes that the hens have become broody. Explain what the farmer should do. Should the farmer **cull or keep the chickens?**

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

|  |  |
| --- | --- |
| **AGRICULTURE** | |
| TOPIC: POULTRY | Section 6: Daily Management |
| Objectives:   1. Describe the conditions required for the successful incubation of eggs, using a broody hen 2. Describe the conditions required for successful rearing of chicks in a village situation 3. Describe the preparation of a balanced diet using locally available food 4. List the chicken feeds supplied by millers 5. Describe the proportions of chicken feed according to age and size of the bird | |

**Week 8 Lesson 2**

1. Copy notes on Section 6 (Poultry notes. Pdf) to your exercise book (page 22 – 24)
2. Read and highlight important points

|  |  |
| --- | --- |
| **AGRICULTURE** | |
| TOPIC: POULTRY | Section 6: Daily Management (Cont...) |
| Objectives:   1. Describe the conditions required for the successful incubation of eggs, using a broody hen 2. Describe the conditions required for successful rearing of chicks in a village situation 3. Describe the preparation of a balanced diet using locally available food 4. List the chicken feeds supplied by millers 5. Describe the proportions of chicken feed according to age and size of the bird | |

**Week 8 Lesson 3**

1. Copy notes on Section 6 (Poultry notes. Pdf) to your exercise book (page 25 – 27)
2. Read and highlight important points
3. Do Exercise below

Exercise 2

1. Name the item shown in the picture

 \_\_\_\_\_\_\_\_\_\_\_\_

1. Complete the table by giving an example of local food that can make up a balanced diet for chickens

|  |  |  |
| --- | --- | --- |
| Protein | Energy | Vitamins and Minerals |
|  |  |  |

1. Complete the table below:

|  |  |  |
| --- | --- | --- |
| Feed | Age and size of bird | Nutritional status |
| Broiler mash |  |  |
|  |  | Plenty protein and minerals, less carbohydrate – birds are not allowed to get too fat |
|  | Grower – 5 weeks to point of lay (18 – 21 weeks) |  |
| Chicken starter mash |  |  |

|  |  |
| --- | --- |
| **AGRICULTURE** | |
| TOPIC: POULTRY | Section 7: Health and Disease |
| Objectives:   1. Identify at least 5 important characteristics of a healthy and unhealthy hen 2. Identify the symptoms of and treatment for: a) external parasites b) internal parasites | |

**Week 9 Lesson 4**

1. Copy notes on Section 7 (Poultry notes. Pdf) to your exercise book (page 28 - 31) *Additional notes:*

|  |  |
| --- | --- |
| See the source image Chicken mites | |
| See the source image Chicken ticks | |
| See the source image Chicken lice | |
| See the source image Chicken Coccidiocis  **Control**  - Coccidiostat  - Good sanitation   * Standing hunched up, with ruffled feathers * Off-color or bloody droppings * Inactive/off or on their own * Eating and drinking less | |
| **AGRICULTURE** | |
| TOPIC: POULTRY | Section 7: Health and Disease (Cont.…) |
| Objectives:   1. Identify at least 5 important characteristics of a healthy and unhealthy hen 2. Identify the symptoms of and treatment for: a) external parasites b) internal parasites | |

**Week 9 Lesson 5**

1. Read and highlight important points in section 7
2. Do Exercise below

Exercise 3

1. Read your notes and complete the 3 tables below.

*Table 1: External Parasites (The first one has been done for you)*

|  |  |  |  |
| --- | --- | --- | --- |
| External Parasite | Description | Symptoms | Control/ prevention |
| 1. Lice | 3mm long, oval shaped and grey or yellow in color | Constant irritations | insecticides |
| 1. Ticks |  |  |  |
| 1. Mites |  |  |  |

*Table 2: Internal Parasites*

|  |  |  |  |
| --- | --- | --- | --- |
| External Parasite | Description | Symptoms | Control/ prevention |
| Round worms |  |  |  |

*Table 3: Vices (bad habits) of chickens*

|  |  |  |  |
| --- | --- | --- | --- |
| Vices | Caused by | Signs/ behavior | Control |
| Egg pecking |  |  |  |
| Cannibalism |  |  |  |

1. List 3 important characteristics of a healthy hen
   1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
   2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
   3. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. List 3 characteristics of an unhealthy hen
   1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
   2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
   3. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
3. What is the difference between “internal parasites” and “external parasites”?

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

|  |  |
| --- | --- |
| **AGRICULTURE** | |
| TOPIC: POULTRY | Section 7: Health and disease (Cont.…) |
| Objectives:   1. Identify at least 5 important characteristics of a healthy and unhealthy hen 2. Identify the symptoms of and treatment for: a) external parasites b) internal parasites | |

**Week 9 Lesson 6**

1. Complete notes from section 7
2. Read and highlight important points
3. Complete Exercise 3

|  |  |
| --- | --- |
| **AGRICULTURE** | |
| TOPIC: POULTRY | Section 8: Breeds and Improvement of stock |
| Objectives:   1. Identify different breeds present in Vanuatu 2. Identify the characteristics required in good breeding stock 3. Suggest simple ways to improve the stock of chickens raised in the village | |

**Week 10 Lesson 7**

1. Copy notes on Section 8 (Poultry notes. Pdf) to your exercise book (page 32 - 35)

*Additional notes*

|  |  |
| --- | --- |
| 1. Wild Breed (Red Jungle fowl) | See the source image |
| 2. Egg-laying breed – White Leghorn | See the source image |
| 3. Egg-laying breed – Black Leghorn | See the source image |
| 4. Egg-laying breed – Red Leghorn | See the source image |
| 5. Rhode Island Red | See the source image See the source image |
| 6. Light Sussex | See the source image |
| **7. Hybrid**  **Uses:** Utility – eggs / meat and as pets. **Eggs:** Hybrid layers: usually more pure breeds. Hybrid Chickens are cross-bred from pure breeds such as the Light Sussex, Rhode Island Red or Leghorn. There are hybrid table birds and more common for backyard chicken keepers, hybrid layers. | **Hybrid Chicken** |

|  |  |
| --- | --- |
| **AGRICULTURE** | |
| TOPIC: POULTRY | Section 8: Breeds and Improvement of stock (Cont...) |
| Objectives:   1. Identify different breeds present in Vanuatu 2. Identify the characteristics required in good breeding stock 3. Suggest simple ways to improve the stock of chickens raised in the village | |

**Week 10 Lesson 8**

1. Copy notes on Section 8 (Poultry notes. Pdf) to your exercise book (page 32 - 35)
2. Also copy additional notes to exercise book (cut and paste)
3. Read and highlight important points

|  |  |
| --- | --- |
| **AGRICULTURE** | |
| TOPIC: POULTRY | Section 8: Breeds and Improvement of stock (Cont...) |
| Objectives:   1. Identify different breeds present in Vanuatu 2. Identify the characteristics required in good breeding stock 3. Suggest simple ways to improve the stock of chickens raised in the village | |

**Week 10 Lesson 9**

1. Copy notes on Section 8 (Poultry notes. Pdf) to your exercise book (page 32 - 35)
2. Do Exercise below

Exercise 4

1. Identify the chicken breeds below and state their purpose. (6)

a) 

Breed: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Purpose: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

b) 

Breed: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Purpose: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

c) 

Breed: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Purpose: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Local breeds are characterised by the small body size, and few eggs laid. To improve the stock, there are several ways of improving stock. State one and briefly explain how the method could be used to improve local chicken production. (3)

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

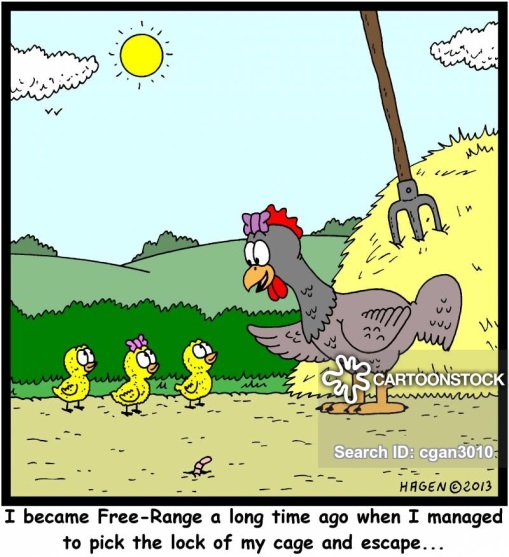
|  |  |
| --- | --- |
| **AGRICULTURE** | |
| TOPIC: POULTRY | Section 11: Different management systems |
| Objectives:   1. Describe the 3 farm management systems (include advantages & disadvantages) 2. Describe a system of intensive management based upon the use of a battery house and give reasons why this system is not widely used in Vanuatu 3. Describe the systems of management based upon the use of:  * Simple nest boxes * Poultry house made of bush materials | |

**Week 11 Lesson 10**

1. Copy notes on Section 11 (Poultry notes. Pdf) to your exercise book (page 36 - 38)
2. Also copy additional notes to exercise book (cut and paste)
3. Also watch video - Animal production – Chicken (battery cage system)
4. Read and highlight important points
5. Do Exercise below

*Additional notes*

Extensive management system Semi - Intensive

Intensive management system

***Battery Cage system Deep Litter***

|  |  |
| --- | --- |
| See the source image | See the source image |

Exercise

Exercise 5

1. Complete the table of management systems by listing down ONE advantage and ONE disadvantage of each management system. (6)

|  |  |  |
| --- | --- | --- |
| Management System | Advantage | Disadvantage |
| 1. Extensive System |  |  |
| 2. Semi- Intensive system |  |  |
| 3. Intensive System |  |  |

1. State ONE difference between Intensive management systems; “***Battery cage and Deep Litter System***”. (2)

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

|  |  |
| --- | --- |
| **AGRICULTURE** | |
| TOPIC: POULTRY | Section: 1 - 11 |
| Objectives:   * Topic review | |

**Week 11 Lesson 11 & 12**

1. Check that you have answered questions from all exercises
2. Read all notes from section 1 – 11
3. Take note of main points
4. Complete the table below

|  |  |  |
| --- | --- | --- |
| What have you learnt? | What you still do not understand | What you still want to learn |
|  |  |  |

Self – Assessment Test

**Section 1**

1. Define the following terms (3):
   1. Hen - \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
   2. Rooster - \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
   3. Layer - \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Section 2**

1. List down 2 differences between a male and a female chicken. (2)

|  |  |
| --- | --- |
| Male chicken | Female chicken |
|  |  |
|  |  |

**Section 3**

1. Matching (Write the correct letter – term/ part to the correct function). (5)

***A – Small intestine C – Crop E - Oesophagus***

***B – Large intestine D – Stomach F - Gizzard***

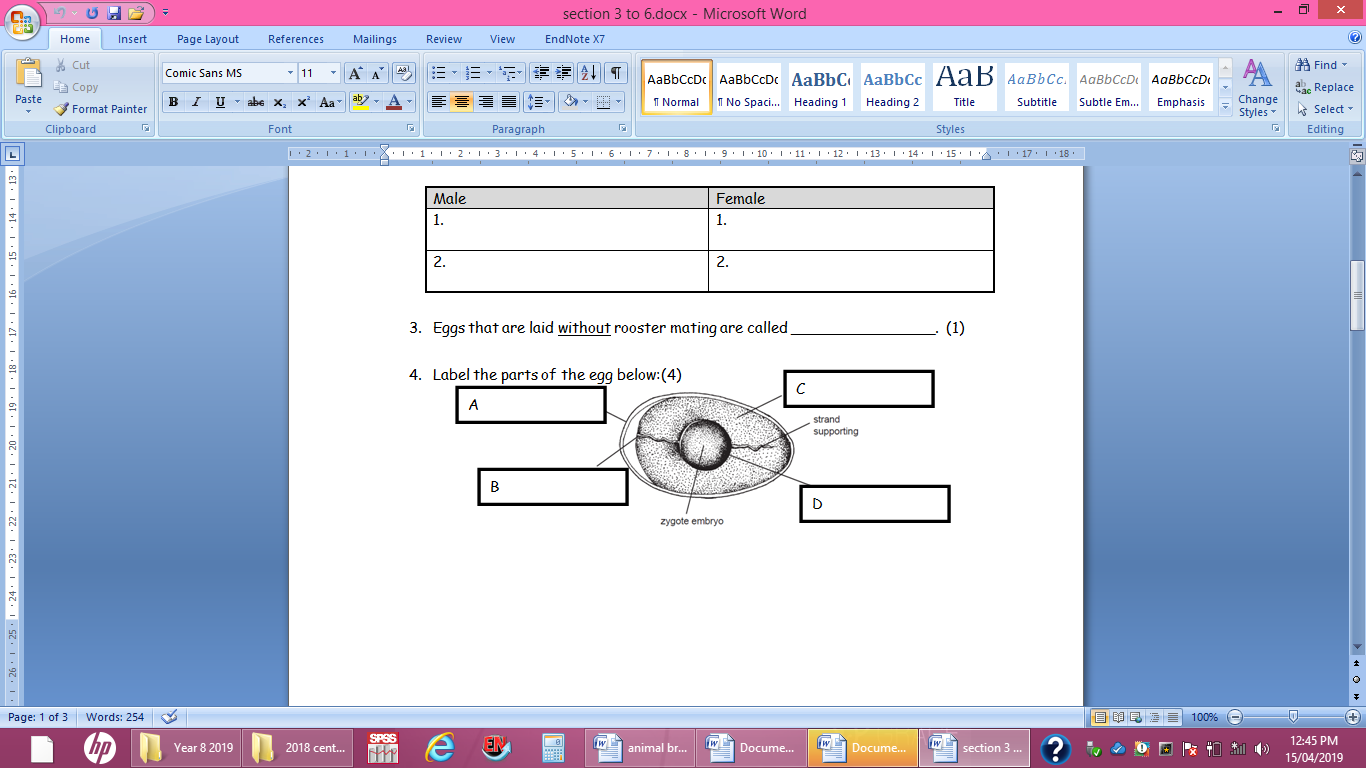
* 1. \_\_\_\_\_\_\_\_\_\_\_\_ allows soluble food to be absorbed into the blood.
  2. \_\_\_\_\_\_\_\_\_\_\_\_the food passes down to the crop through this tube
  3. \_\_\_\_\_\_\_\_\_\_\_\_ water is reabsorbed
  4. \_\_\_\_\_\_\_\_\_\_\_\_ produces gastric juice, including hydrochloric acid to digest protein food
  5. \_\_\_\_\_\_\_\_\_\_\_\_ stores the food and softens it

1. Explain how chickens are able to digest concentrated feed. (2)

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Section 4**

1. Functions of reproductive parts are provided, state the correct reproductive part. (3)
   1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ produces eggs
   2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ produces the sperm
   3. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ carries the sperm to the cloaca
2. Label the parts of the egg below: (4)



**Section 5**

1. State one way of preventing hens from becoming broody. (1)

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Section 6**

1. Chickens need a balanced diet for healthy growth and development. Complete the table below by giving local feed examples. (3)

|  |  |  |
| --- | --- | --- |
| Energy | Protein | Vitamins and minerals |
|  |  |  |

1. Name 4 commercial feed types given to different types of chickens. (4)
   1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
   2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
   3. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
   4. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Section 7**

1. Complete the table below: (6)

|  |  |  |
| --- | --- | --- |
| Disease/ Parasite/Vice | Symptom/sign | Control/ Prevention |
| Coccidiosis |  |  |
| Egg pecking |  |  |
| Lice |  |  |

**Section 8**

1. Identify the chicken breeds below and state their purpose. (2)

Breed: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Purpose: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Section 11**

1. Complete the table of management systems by listing down ONE advantage and ONE disadvantage of each management system. (6)

|  |  |  |
| --- | --- | --- |
| Management System | Advantage | Disadvantage |
| 1. Extensive System |  |  |
| 2. Semi- Intensive system |  |  |
| 3. Intensive System |  |  |