**NAME……………………………………….……………………………. ADM NO………….**

**CLASS……………………………………………………………..**

**JOINT EXAMINATION**

**443/2**

**AGRICULTURE FORM THREE PAPER 2**

**2 Hours**

**TERM 3: OCTOBER 2023**

**INSTRUCTIONS**

***(a) Write your name, admission number and class in the space provided above.***

***(b) This paper consists of three sections: A, B and C.***

***(c) Answer all questions in section A and B.***

***(d) Answer any two questions in section C***

***e) This paper consists of 13 printed pages***

**FOR EXAMINER’S USE ONLY**

|  |  |  |  |
| --- | --- | --- | --- |
| **SECTION** | **QUESTION** | **MAXIMUM SCORE** | **CANDIDATES SCORE** |
| A |  | **30** |  |
| B |  | **20** |  |
| C |  | **20** |  |
| **TOTAL** | | 90 |  |

SECTION A (30 MARKS)

**Answer all the questions in the spaces provided**.

1. What is parasite. (1mk)

.

1. Name any three general factors that influence agriculture (1 1/2mks)

.

1. State four signs of ill-health in livestock. (2mks)

.

1. Differentiate between wessex and Essex pig breeds (2mks)

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1. What is a disease predisposing factor. (1mk)

.

1. Give five advantages of artificial insemination. (2 ½ mks)

.

1. Differentiate between line breeding and upgrading. (1mk)

.

1. Give four routes of administering vaccines in farm animals. (2mks)

.

1. Give four functions of a rumen in a ruminant animal. (2mks)

.

1. State four advantages of Kenya top bar hive. (2mks)

.

1. State four important reasons for feeding livestock with roughages. (2mks)

.

1. State four ways of identifying farm animals. (2mks)

.

1. Give two examples of feed additives in feeding livestock. (2mks)

.

1. Name two species of camel. (1mk)

.

1. State four advantages of castrating male animals . (2mks)

.

1. Give four ways of maintaining a fish pond. (2mks)

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1. State four functions of water in an animals body. (2mks)

.

1. State four reasons for swarming in a bee colony. (2mks)

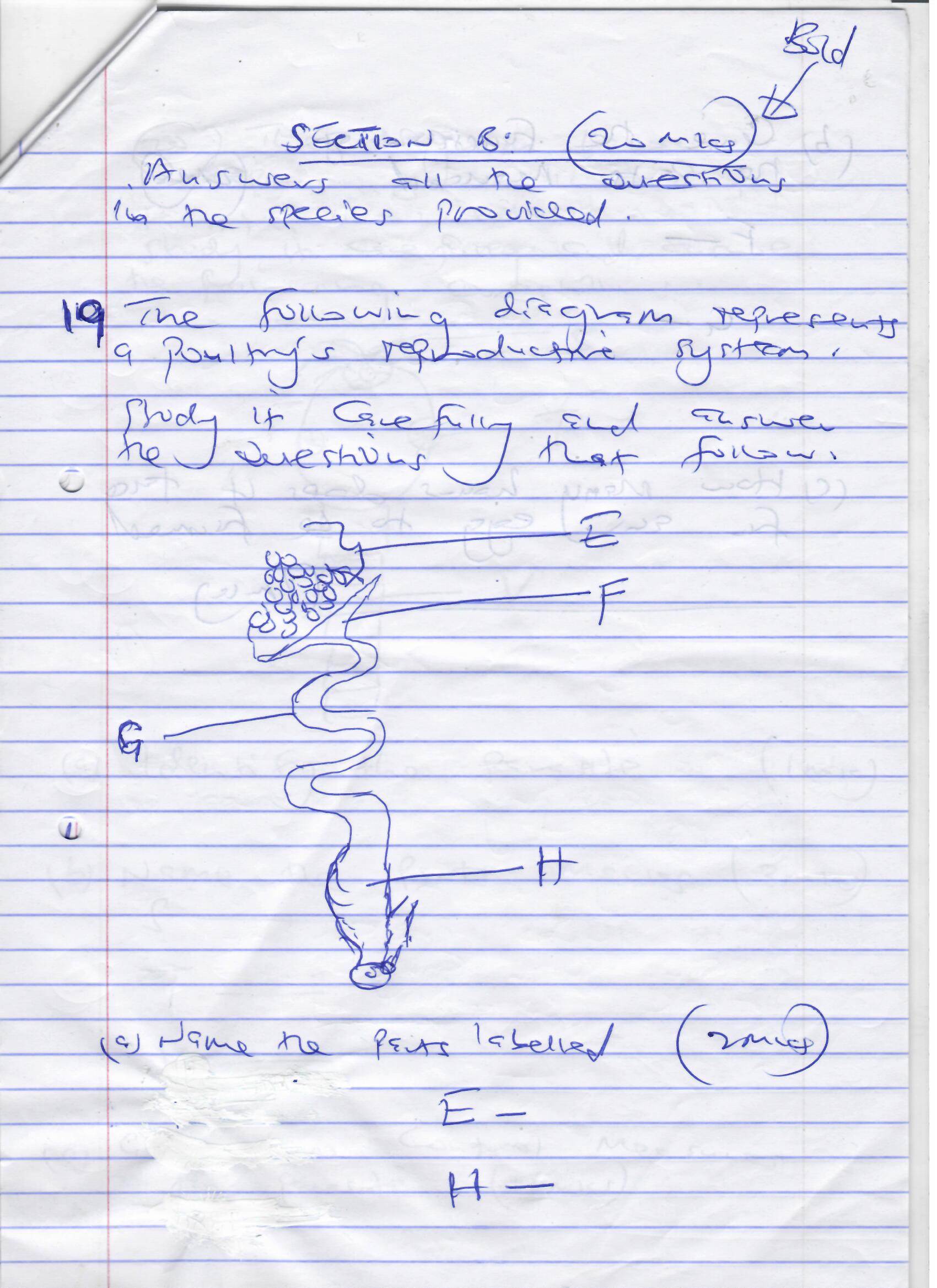
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**SECTION B (20MARKS)**

**Answer all the questions in the species provided**

1. The following diagram represents a poultry’s reproductive system.

Study it carefully and answer the questions that follows.



1. Name the parts labeled ; (2mks)

E-

H-

1. Give the functions of parts marked. (2mks)

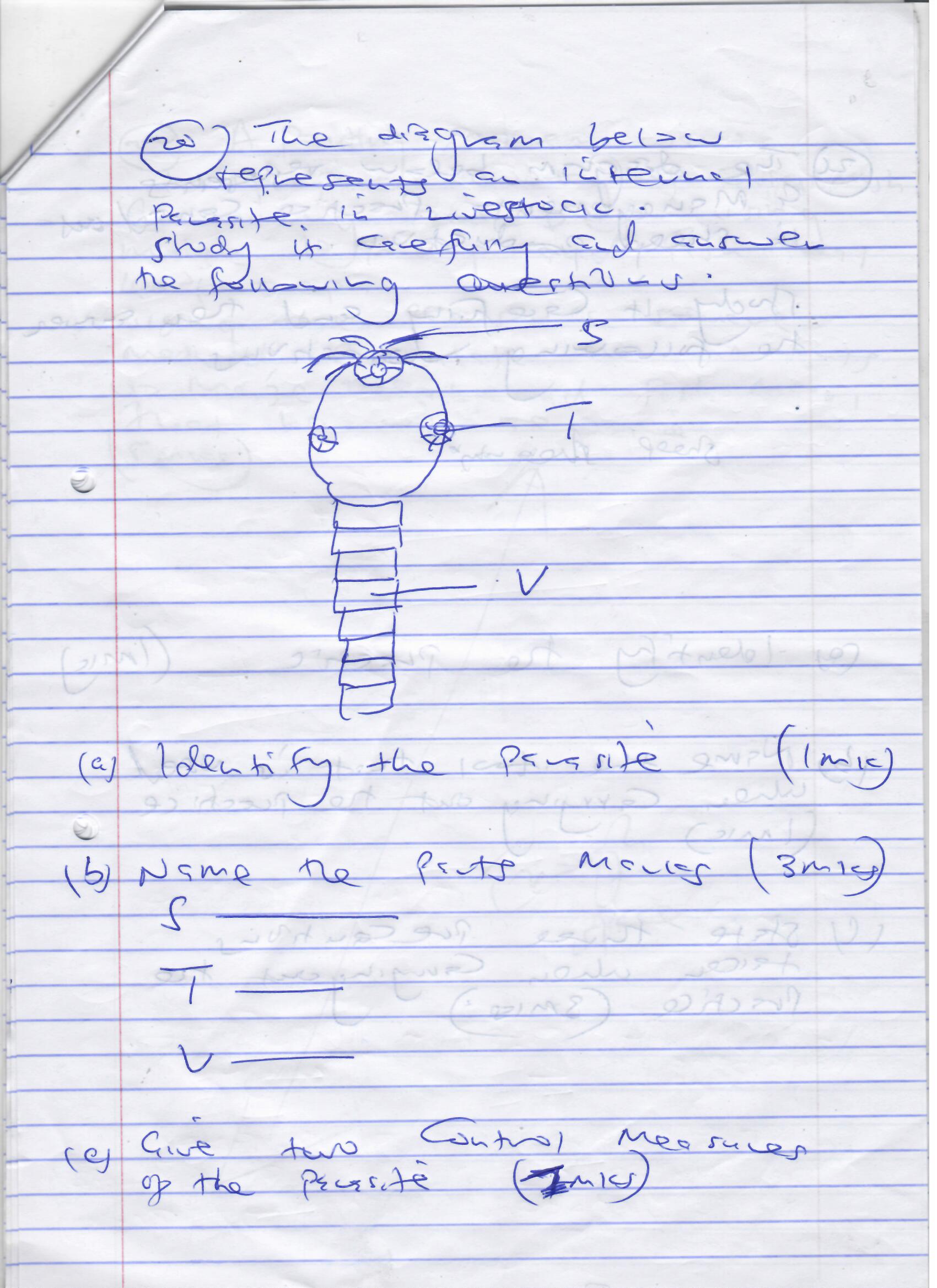
F-

G-

1. How many hours does it take for an egg to be formed. (1mk)

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1. The diagram below represents an internal parasite in livestock. Study it carefully and answer the following questions



1. Identify the parasite. (1mk)

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1. Name the parts marked T and V (2mks)

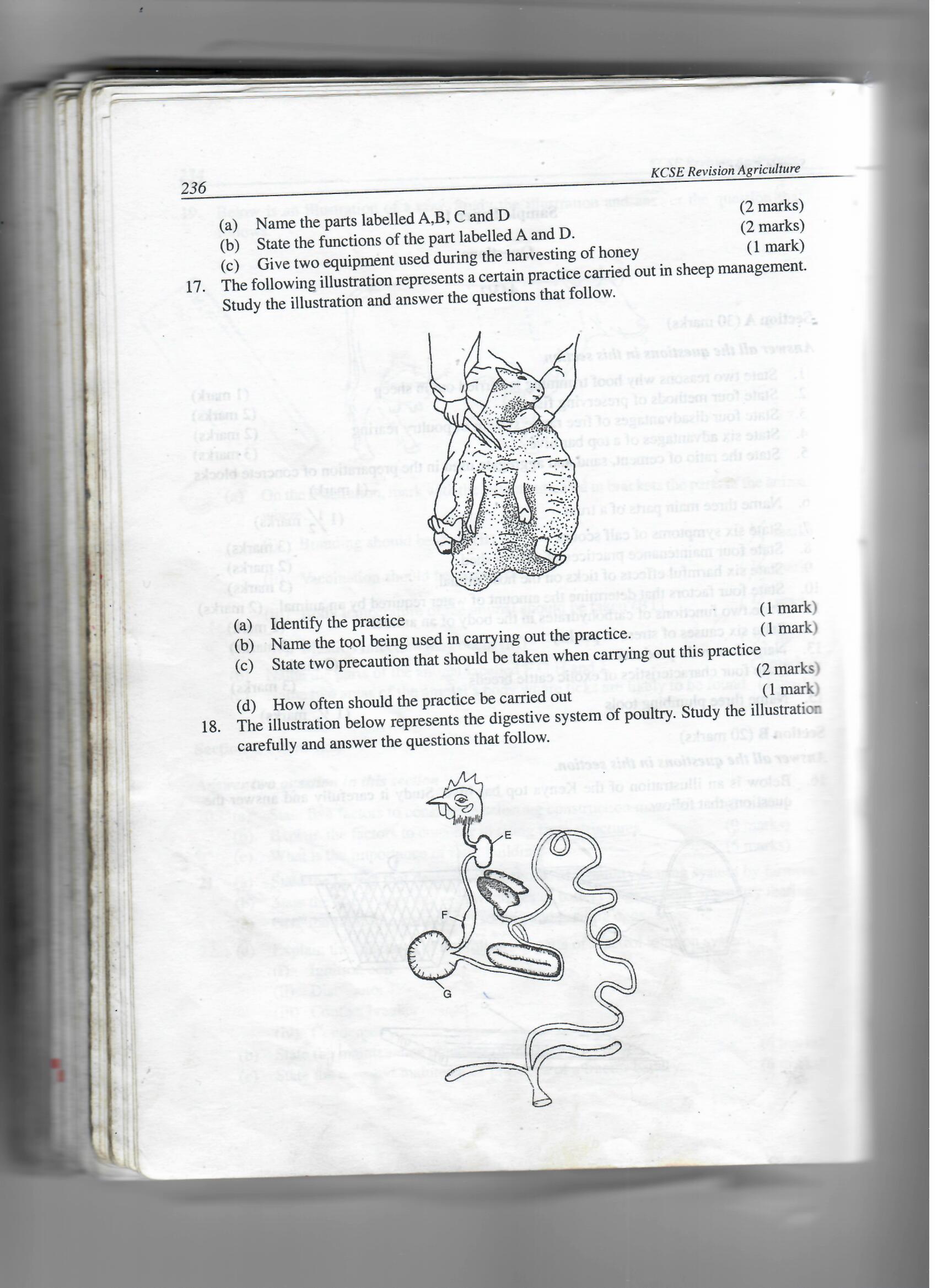
T-

V-

1. Give two control measures of the parasite. (2mks)

.

1. The diagram below represents a management practice carried out in sheep production. Study it carefully and then answer the following questions



1. Identify the practice. (1mk)

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1. Name the tool that is used when carrying out the practice . (1mk)

.

1. State three precautions taken when carrying out the practice. (3mks)

.

1. A poultry farmer wants to prepare 600kg of chick mash containing 20% DCP using maize 10% DCP and fish meal 40% DCP.

Using the Pearson’s square method, calculate the amounts of maize meal and fish meal that he will require. **Show you working** (5mks)

**SECTION C (40MARKS)**

**This section consists of 3 questions. Answer only two question**

1. (a) State five signs of heat in a dairy cow. (5mks)

.

(b) State five advantages of cattle dip as compared to the spray race. (5mks)

.

(c) Give five reasons for maintaining livestock healthy. (5mks)

.

(d) State five factors affecting the digestibility of food eaten by livestock. (5mks)

.

1. (a) Describe the body conformation features of a dairy heifer. (8mks)

.

(b) Describe coccidiosis under the following sub-headings.

I. causal agent. (1mk)

II. Symptoms. (6mks)

.

III. Control and treatment. (5mks)

.

1. (a) Describe bee keeping under the following sub headings procedure of;
2. Feeding bees. (4mks)

.

1. Explain five factors to consider when siting an apiary. (5mks)

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1. Procedure of processing honey using the heat method. (6mks)

.

1. Importance of keeping bees. (5mks)

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