



Centre Number

--	--	--	--	--

Candidate Number

--	--	--	--	--

General Certificate of Secondary Education
2024

Agriculture and Land Use

Unit 2

Animals on the Land

MV18

[GAU21]

MONDAY 17 JUNE, MORNING

Time

1 hour 15 minutes, plus your additional time allowance.

Instructions to Candidates

Write your Centre Number and Candidate Number in the spaces provided at the top of this page.

You must answer the questions in the spaces provided.

Do not write on blank pages.

Complete in black ink only. Answer **all nine** questions.

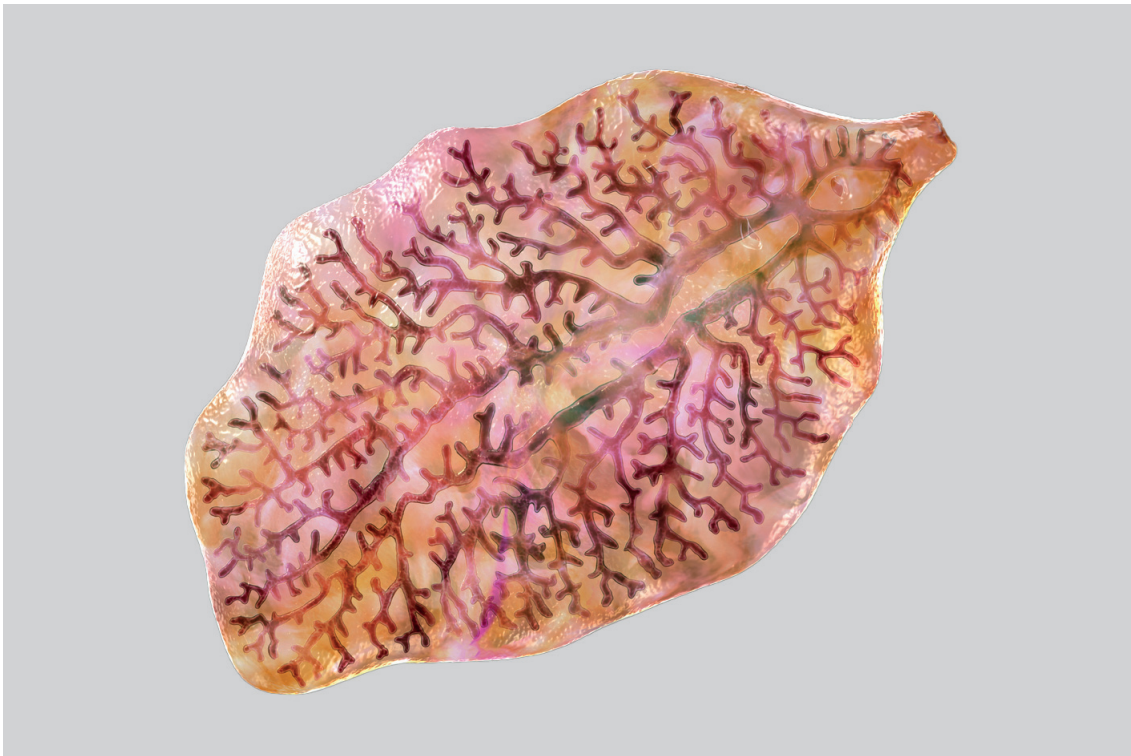
Information for Candidates

The total mark for this paper is 75.

Figures in brackets printed at the end of each question indicate the marks awarded to each question or part question.

Quality of written communication will be assessed in Questions **7** and **9**.

- 1 Liver fluke causes a disease which affects farm livestock. The photograph shows an adult liver fluke.



- (a) Complete the following statements about liver fluke.
[3 marks]

Choose words from the list below:

bacteria
humans
virus
reduced growth
sheep
inflamed udders
hens
parasite
open wounds

Liver fluke is a _____.

Liver fluke is most commonly found in the livers of _____.

A common symptom of this disease is _____.

(b) Describe **two** ways to prevent the spread of liver fluke.
[2 marks]

1. _____

2. _____

2 Good record keeping is important on the farm. APHIS (Animal and Public Health Information System) is an online tool which allows farmers to record and check information about their animals and business.

(a) Name **two** things which farmers can record or check about their animals on APHIS. An example has been completed for you. [2 marks]

1. **Births** _____
2. _____
3. _____

(b) (i) Give **two** benefits of using an online record-based system such as APHIS. [2 marks]

(ii) Suggest **one** disadvantage of using an online record-based system. [1 mark]

(c) State **two other** new technologies which farmers may use on farms. [2 marks]

1. _____
2. _____

3 Northern Ireland has a poultry population of over 25 million. Feed is one of the main costs of poultry farming.

(a) What is the main feed type given to poultry in Northern Ireland? [1 mark]

(b) (i) Apart from feed, state **two other** costs of keeping poultry. [2 marks]

1. _____

2. _____

It is important that farmers make a profit to stay in business.

(ii) Define the term 'profit'. [1 mark]

(c) Poultry and pigs have different digestive tracts.

Sort the following parts of the digestive tracts into the correct boxes. One has been done for you. [6 marks]

proventriculus

gizzard

stomach

anus

liver

small intestine

cloaca

Digestive tracts		
pigs only	poultry and pig	poultry only
	liver	

Blank Page
(Questions continue overleaf)

- 4 The photograph shows a tractor and dump trailer being used to move soil.



Using your knowledge and the photograph, identify three different hazards and describe the associated risks when using a tractor and dump trailer to move soil.

[2 marks for each]

1. Hazard _____

Describe the risk

2. Hazard _____

Describe the risk

3. Hazard _____

Describe the risk

5 Milk production forms a large part of the local agricultural economy in Northern Ireland (NI).

(a) (i) State the typical **annual** milk yield for a dairy cow.
[1 mark]

_____ litres

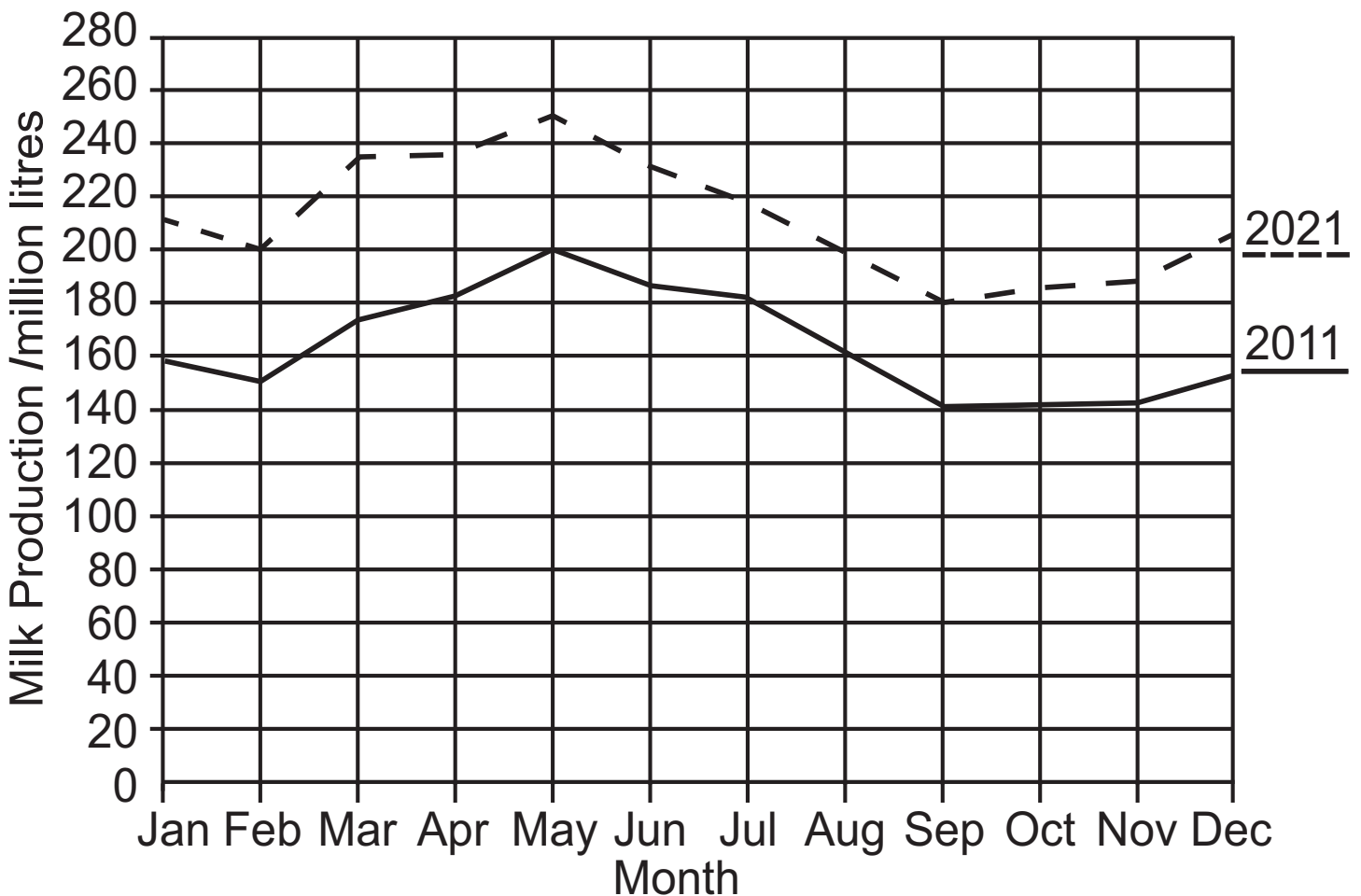
(ii) State **three** products that milk can be processed into. [3 marks]

1. _____

2. _____

3. _____

The graph shows the monthly milk production in NI in 2011 and 2021.



(b) (i) What was the milk production in February 2021?
[1 mark]

_____ million litres

(ii) Calculate the difference in milk production between May 2011 and May 2021. [2 marks]

Show your working.

_____ million litres

(c) (i) In which month was milk production the lowest for both years? [1 mark]

(ii) Suggest **one** reason why the production varies throughout the year. [1 mark]

(d) In 2021 NI produced a total of 2580 million litres of milk, of which 80% was exported to other countries.

Calculate the total quantity of milk exported in 2021.
[2 marks]

Show your working.

_____ million litres

Blank Page
(Questions continue overleaf)

- 6 Selective breeding of cattle over many generations has given us the variety of breeds we have today.



- (a) For **two** named breeds of cattle you have studied, give one desirable trait. [4 marks]

The desirable trait must be different for each breed.

Breed chosen _____

Desirable trait _____

Breed chosen _____

Desirable trait _____

Silage effluent can cause water pollution.

(b) Suggest how farmers can reduce the amount of silage effluent produced and how they can prevent silage effluent from causing water pollution. [3 marks]

(c) Farms can also cause air and noise pollution.

Name two different sources of farm pollution, one that causes air pollution and one that causes noise pollution. [2 marks]

air pollution _____

noise pollution _____

SOURCES

Q1....© Getty Images
Q4....Chief Examiner
Q5....Chief Examiner
Q6....©Getty Images

For Examiner's use only	
Question Number	Marks
1	
2	
3	
4	
5	
6	
7	
8	
9	

Total Marks	
--------------------	--

Examiner Number

Permission to reproduce all copyright material has been applied for.
In some cases, efforts to contact copyright holders may have been unsuccessful and CCEA will be happy to rectify any omissions of acknowledgement in future if notified.