If provided, stick your candidate barcode label here.

Candidate name (first, last)
First
Last
Candidate enrolment number Date of birth (DDMMYYYY) Gender (M/F)
Assessment date (DDMMYYYY) Centre number Candidate signature and declaration*

• If additional answer sheets are used, enter the additional number of pages in this box.
• Before taking the examination, all candidates must check that their barcode label is in the appropriate box. Incorrectly placed barcodes may cause delays in the marking process.
• Please ensure that you staple additional answer sheets to the back of this answer booklet, clearly labelling these with your full name, enrolment number, centre number and qualification number in BLOCK CAPITALS.
• All candidates need to use a black/blue pen. Do not use a pencil or gel pen, unless otherwise instructed.
• If provided with source documents, these documents will not be returned to City & Guilds, and will be shredded. Do not write on the source documents.

*I declare that I had no prior knowledge of the questions in this examination and that I will not divulge to any person any information about the questions.

You should have the following for this examination
• a pen with blue or black ink

General instructions
• Use black or blue ball-point pen.
• The marks for questions are shown in brackets.
• This examination contains 17 questions. Answer all questions.
• Answer the questions in the spaces provided. Answers written in margins or on blank pages will not be marked.
• Cross through any work you do not want to be marked.
1. State how atmospheric pressure is affected by increasing altitude. (1 mark)

2. State how igneous rock is formed. (1 mark)

3. Sand, silt and clay particles form the mineral element of soil.
   a) Identify which one of these three particles is the smallest in size. (1 mark)
   
   b) Identify which one of these three particles feels gritty when rubbed between your fingers. (1 mark)
   
   c) Explain why a loam soil is productive. (5 marks)

4. Explain how Wildfowl centres affect local environmental processes. (3 marks)
5 State the **legal status** of one named aquatic mustelid. (2 marks)

6 Identify **two** key characteristics of a fox's footprint. (2 marks)

7 Explain how the Larsen trap takes advantage of the Carrion Crow's breeding behaviour. (4 marks)

8 Describe **four** non-lethal methods for protecting newly released pheasant poults from mammalian predators. (4 marks)

9 Name **three** components of a cartridge. (3 marks)
10 Describe **one** precaution that should be taken to avoid ricochet in relation to rifle shooting. (1 mark)

11 Explain **three** factors that would affect the trajectory of a rifle bullet. (6 marks)

12 State the differences between a single stage and a hair trigger on a rifle. (2 marks)

13 State **three** physical differences between male and female mallard duck which aid identification. (3 marks)

14 Grey Partridge and Grouse will form strong pair bonds.

   Name the technical term for this breeding strategy. (1 mark)
15 Describe **three** key requirements of newly hatched pheasant chicks in the wild. (6 marks)

16 Describe **when** and **how** a pair count should be undertaken for Grouse. (2 marks)
A landowner has asked for advice about how to control potential geese numbers on his grazing land around an estuary.

Discuss the considerations that should be given in a response. (12 marks)