0173-511 MARCH 2018  
Level 3 Technicals in Land and Wildlife  
Level 3 Land and Wildlife Management – Theory Exam (2)

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 any additional answer sheets are used, enter the additional number of pages in this box.
• Please ensure that you staple additional answer sheets to the back of this answer booklet, clearly labelling them 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.
• 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 assessment 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
• calculator

General instructions  
• Use black or blue ball-point pen.
• The marks for questions are shown in brackets.
• This examination contains 11 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. a) Give one example for intrusive igneous rock.  (1 mark)

b) Name the three different sized mineral particles in soils.  (3 marks)

c) State two ways how erosion affects soil composition.  (2 marks)
2. Explain the pyramid of biomass, with reference to Figure 1. (6 marks)

3. List two signs of occurrence of pests and predators locally. (2 marks)
4. Exclusion and visual deterents are two non-lethal methods of pest and predator control.
   a) Name two other non-lethal methods of pest and predator control.

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   b) Define the process of exclusion with one example.

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   c) Describe three advantages and three disadvantages of visual deterents as used in pest and predator control.

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5  a) Name the parts of the shotgun labelled A and B in Figure 2. (2 marks)

![Figure 2](image)

b) Explain how chokes in a shotgun affect the pattern of shot and therefore the effective killing range of a shotgun. (4 marks)
6 a) Explain the dimensions 6.5 x 55 as used when describing a rifle calibre. (3 marks)

b) The adjustments on a rifle scope change the point of aim by 1 cm for each click at 100 m. If a rifle is shooting low by 2 cm at 25 m, calculate how many clicks up are required to zero the rifle. You must show your working. (3 marks)

7 Name two species of geese found in the UK. (2 marks)

8 a) State the month in which grey partridges would normally start to pair-up. (1 mark)

b) State what population data is obtained from a summer brood count. (1 mark)
9 Explain how the breeding strategy of the pheasant differs from that of the red grouse. (4 marks)

10 For a named gamebird species, explain a habitat management technique that can increase the number of breeding territories. (4 marks)
11 The climate tends to be wetter and colder with increasing altitude.

Discuss how this impacts on land-use and gamebird management in the English uplands.

(12 marks)