0173-509 MARCH 2019
Level 3 Technicals in Land and Wildlife
Level 3 Land and Wildlife – Theory Exam (2)

Thursday 14 March 2019
13:30 – 15:30

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 15 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.

© The City and Guilds of London Institute 2019
ST00054948 A4 PO4500139992 10404614
1 State any **three** stages of the hydrological cycle. (3 marks)

2 State the major rock type that forms through deposition. (1 mark)

3 Describe any **three** layers in the soil profile shown in **Figure 1**. (6 marks)

![Figure 1](http://www.diyinfozone.com)
4  For each of the following UK locations, state the predominant rock type:
   a) Giant’s Causeway
   
   b) Malham Cove
   
   c) Dartmoor Tors
   
5  Explain why photosynthesis is important for all animals.

6  State three processes involved in the Nitrogen Cycle.

7  Explain how Wildfowl centres affect local environmental processes.
8 Describe **three** features that indicate historic woodland status. (6 marks)

9 Explain **two** ways how an unmanaged woodland ride can be managed to improve its ecological structure. (4 marks)

10 Describe **three** advantages of using planting instead of natural regeneration. (3 marks)
11 State **two** safety considerations when installing a bat box.  

12 State **three** typical characteristics of an *r* breeding strategy.  

13 Give **three** reasons why polygamous mating systems often result in the development of aggressive behaviours.  

14 Describe **three** consequences of isolation within a fragmented landscape.
A conservation charity has recently purchased an urban fringe woodland which has received no management for the past 20 years, including areas of previously coppiced broadleaves and semi mature conifers.

Discuss a range of management techniques that could be implemented at this site. (12 marks)