



0173-513 MARCH 2019

Level 3 Technicals in Land and Wildlife

Level 3 Land and Wildlife Management – Theory Exam (2)

If provided, stick your candidate barcode label here.

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 16 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 Name **three** stages of the hydrological cycle. (3 marks)

2 Describe **two** stages in the formation of sedimentary rocks. (4 marks)

3 Explain **two** causes of bankside erosion. (4 marks)

4 Describe where and how aerobic and anaerobic respiration takes place within a pond.
Aerobic: (2 marks)

Anaerobic: (2 marks)

5 a) Name **one** apex predator within a freshwater ecosystem. (1 mark)

b) Name **two** trophic levels within **one** aquatic food chain, using a named example for each trophic level. (4 marks)

6 State **three** ways how a fish uses its fins. (3 marks)

7 Describe how **two** characteristics found on a teleost fish scale from a temperate environment can determine events within its life history. (4 marks)

8 Describe the main function of **one** physiological system found in fish. (2 marks)

9 State **two** causes that lead to abnormal behaviour in fish. (2 marks)

10 Explain why a rearing diet for juvenile fish would have a higher protein content than a maintenance diet for adult fish. (3 marks)

11 For a named viral infection, describe **three** of the clinical symptoms displayed by an infected fish. (4 marks)

12 Give **two** methods of managing fungal infections in a fishery. (2 marks)

13 Describe **two** nutritional health issues that could cause vertebral deformity in fish. (2 marks)

14 Name **three** health problems in fish caused by environmental conditions. (3 marks)

15 Give the full names of **three** non-government national organisations that are involved in fish welfare. (3 marks)
