0173-507 MARCH 2019
Level 3 Technicals in Land and Wildlife Management
Level 3 Land and Wildlife Management – Theory Exam (2)

Thursday 14 March 2019
13:30 – 14:50

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 10 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.

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1 List **two** physical and **two** chemical parameters that can be measured to analyse the condition of a water body. (4 marks)

2 a) Define the Water Framework Directive. (1 mark)

b) Give **two** applications of the Water Framework Directive. (2 marks)

3 Define the River Invertebrate Prediction and Classification System (RIVPACS). (1 mark)
4 Explain how agriculture can affect water quality. (4 marks)

5 Explain three ways how a deterioration in water quality can impact upon the flora and fauna found within an aquatic habitat. (6 marks)
6 Identify the internal features labelled A, B and C of the fish in Figure 1. (3 marks)

![Figure 1](source: www.infovisual.info)

A
B
C

7 List three effects on physiological systems of a fish during peak angling season. (3 marks)

8 Give three reasons why fish swim erratically. (3 marks)
9. State **four** symptoms of deficiencies and excesses of lipids in fish. (4 marks)
10 Using a suitable feeding regime for a named game fish species within a fresh water lentic environment, discuss the impact of the feeding regime on fish health and water quality. (9 marks)