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# 0173-511 MARCH 2022

## Level 3 Technicals in Land and Wildlife

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

If provided, stick your candidate barcode label here.

Tuesday 15 March 2022  
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.



1 Rainfall affects the Earth's climate and weather.

List **four** other factors that influence the Earth's climate and weather.

(4 marks)

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2 Explain **two** ways in which the sun's heat influences the hydrological cycle.

(4 marks)

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3 Explain **two** reasons why podzols are nutrient poor soils.

(4 marks)

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4 List **four** field signs used to determine the presence of foxes. (4 marks)

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5 Explain how the Protection of Badgers Act 1992 has impacted badger populations in England. (4 marks)

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6 Explain how the **breeding ecology** of magpies is exploited in the use of Larsen traps to control magpie numbers. (4 marks)

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7 Figure 1 shows a shotgun action.

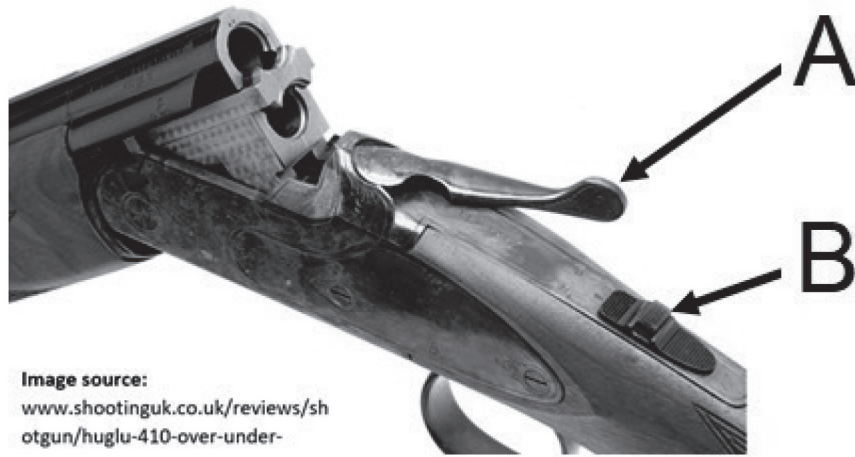


Image source: www.shootinguk.co.uk/reviews/shotgun/huglu-410-over-under-

Figure 1

a) Identify the part labelled 'A'. (1 mark)

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b) State **two** functions of the part labelled 'B'. (2 marks)

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8 a) State the minimum age for holding a Firearms Certificate. (1 mark)

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b) State the minimum age a shotgun certificate holder may use a shotgun unsupervised on private premises. (1 mark)

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9 Explain how increasing shot diameter affects the external ballistics of a shotgun. (3 marks)

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10 Explain **two** ways the terminal ballistics of a bullet can damage a living organism. (4 marks)

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11 State **two** specific features of the male shoveler which differentiate it from the female, during the breeding season. (2 marks)

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12 Name **two** species of rail that can be shot in England and Wales. (2 marks)

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13 Explain **one** survey method which is undertaken to estimate grey partridge numbers. (6 marks)

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14 Explain why black grouse use lekking as a breeding strategy. (2 marks)

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15 A farmer wants to develop a wild bird shoot on their land, which is intensive arable farmland, with some blocks of woodland and a network of public rights of way. Discuss the factors that need to be considered in order to develop the shoot. (12 marks)

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