





0173-501 MARCH 2018 Level 3 Technicals in Land and Wildlife Management

Level 3 Land and Wildlife Management – Theory Exam (1)

If provided, stick your candid barcode label here.	data	sday 15 March 2018) – 11:30
Candidate name (first, last)		
First		
Last		
Candidate enrolment number	Date of birth (DDMMYY)	YY) Gender (M/F)
Assessment date (DDMMYYYY)	Centre number	Candidate signature and declaration*
 Please ensure that you staple a booklet, clearly labelling them w and qualification number in BLO All candidates need to use a bla 	additional answer sheets vith your full name, enrolr CK CAPITALS. ack/blue pen. Do not us nts, these documents will rite on the source docur cnowledge of the quest.	ment number, centre number use a pencil or gel pen. ill not be returned to City & Guilds, ments. stions in this assessment

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 13 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 Figure 1 is of a two-stroke engine.

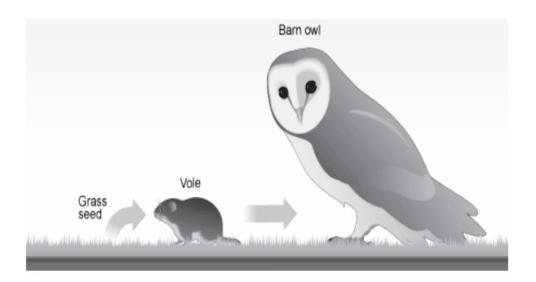


Source: http://www.petrolscooter.co.uk/

Figure 1

a)	Identify the part labelled A.	(1 mark
b)	Give a common fault associated with the part labelled A.	(1 mark
	e Control of Noise at Work Regulations 2005 specifies the exposure action values. mpare daily/weekly exposure and peak sound pressure.	(4 marks

3	a)	Define the term 'population'.	(2 marks)
	b)	The population of a bird species in an area consists of 30 pairs in Spring and the average brood size in Summer is 2.3 young. Calculate the total population in Autumn, assuming no losses. You must show your working.	(3 marks)



Source: http://www.bbc.co.uk/schools/gcsebitesize/science/

Figure 2

4	Wit a)	h reference to Figure 2, state the original source of energy for this food chain	(1 mark)
	b)	give the trophic position of the grass in this food chain	(1 mark)
	c)	explain, with reference to the laws of thermo-dynamics, why a large biomass of grass is required to support a smaller biomass of Voles.	(3 marks)

(5 marks)

5 Figure 3 shows a classic population cycle between a predator and its prey.

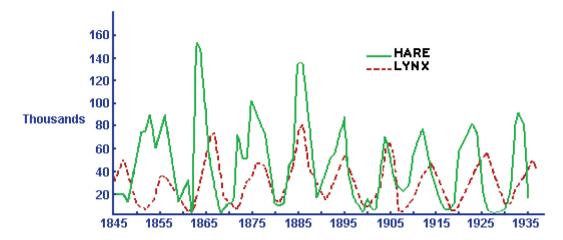


Figure 3

Explain how and why the number of Lynx fluctuates.				



a)	Name two bird species that have been the subject of a reintroduction project in the UK.	(2)
b)	For one of the bird species named in a) above, explain two reasons why the population had declined making reintroduction necessary.	(4 1

8		en undertaking estate maintenance tasks, using the correct PPE, tools and uipment is very important.	
	a) .	State one correct piece of equipment to use when connecting barbed wire to a wooden post.	(1 mark
	b)	Name one piece of PPE that should be worn whilst using a flat plate vibrator.	(1 mark
	c)	A metric screw size is given as 5.0×10 . State what the 10 refers to.	(1 mark
9	a)	Calculate the amount of material, in m^3 , that is required to construct a surface that is 10 m x 3 m and 10 cm deep. You must show your working.	(2 marks
	b)	When selecting materials to construct a board walk, describe the factors that need to be considered.	(4 marks

10	When undertaking a habitat management practical to clear a site of woody vegetation, describe the options available for the disposal of the cut material.	(3 marks)

11 Identify the parts circled in Figures 4 and 5 below.

(2 marks)

(4 marks)





Source: https://edwards-trailers.co.uk **Figure 5**

12	Describe what operating and working principles need to be considered when choosing a new all-terrain vehicle.	
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8

plan for the rotational management of hedgerows. Discuss what factors you would need to consider for developing a suitable management plan.	(12