



0173-524 JUNE 2018

Level 2 Technical Certificate in Land and Wildlife

Level 2 Land and Wildlife – Theory Exam (1)

Friday 22 June 2018
09:30 – 11:30

You should have the following for this examination

- a multiple-choice answer sheet
- a pen with black or blue ink
- calculator

This question paper is the property of the City and Guilds of London Institute and is to be returned after the examination.

Read the following notes before you answer any questions

- You **must** use a pen with black or blue ink to complete **all** parts of the answer sheet.
- Check that you have the correct answer sheet for the examination.
- Check that your name and candidate details are printed correctly at the top of your answer sheet.
- Inform the invigilator if your name or examination details are not correct.
- Each question shows **four** possible answers (lettered 'a', 'b', 'c' and 'd'); only **one** is correct.
- Decide which **one** is correct and mark your answer on the **answer sheet** with your pen.

For example if you decide 'a' is correct, mark your answer like this

101	<input checked="" type="radio"/>	<input type="radio"/> b	<input type="radio"/> c	<input type="radio"/> d
	Cancel	Cancel	Cancel	Cancel

If you want to change your answer, cancel your first choice by filling in the 'cancel' box below the circle like this

101	<input checked="" type="radio"/>	<input type="radio"/> b	<input type="radio"/> c	<input type="radio"/> d
	Cancel	Cancel	Cancel	

Then mark the answer which you have now decided is correct. For example if you now decide 'c' is correct, mark your answer like this

101	<input checked="" type="radio"/>	<input type="radio"/> b	<input checked="" type="radio"/>	<input type="radio"/> d
	Cancel	Cancel	Cancel	

Any other marks on the form may invalidate some of your answers.

- Any calculations or rough working can be done on the question paper.
- Attempt all questions. If you find a question difficult, leave it and return to it later.

This paper contains 50 questions. Answer them using the 'boxes' numbered 1 to 50 on the answer sheet.

1 Following completion of a level 2 qualification, which **two** of the following jobs are the most likely first jobs for a Wildlife Gamekeeper student?

- 1 Underkeeper.
- 2 Fishery worker.
- 3 Pest controller.
- 4 Surveyor.

- a 1 and 2.
- b 1 and 3.
- c 2 and 3.
- d 1 and 4.

2 What skills are required for an assistant ranger?

- a Machine maintenance, fencing.
- b Pest control, managing accounts.
- c Accounting, budget maintenance.
- d Surveying, managing staff.

3 **Statement 1:**

Environment Agency is responsible for issuing waste carrier licenses.

Statement 2:

Environment Agency is a private organisation which has membership options.

Which of the following is correct for the statements above?

	Statement 1	Statement 2
a	True	True
b	True	False
c	False	False
d	False	True

4 Natural England is classed as which type of organisation?

- a Voluntary.
- b Charitable.
- c Non-statutory.
- d Statutory.

5 If an 18 year old worker, works less than 20 hours per week for one company, what is their employment usually classed as?

- a Full time.
- b Part time.
- c Seasonal.
- d Self-employed.

6 When using a tractor in dry and dusty conditions, which **two** of the following are likely to get blocked?

- 1 Air filter.
- 2 Fuel filter.
- 3 Radiator.
- 4 Oil filter.

- a 1 and 3.
- b 2 and 3.
- c 2 and 4.
- d 1 and 4.

7 Which of the following activities can be undertaken using a tractor mounted roller?

- a Crushing bracken.
- b Burying trash.
- c Cutting brash.
- d Planting seed.

8 Which one of the following is used for herbicide application for controlling weeds?

a



Source www.elitetoysandmodels.co.uk

Figure 1

b



Source www.drag-harrow.com

Figure 2

c



Source <http://www.spraytech.uk.com>

Figure 3

d



Source www.molevalleyfarmers.com

Figure 4

9 What fuel is used in a two stroke engine?

- a Petrol and oil.
- b Petrol only.
- c Diesel only.
- d LPG only.

10 Which one of the following could **not** be battery operated?

- a Chainsaw.
- b Pedestrian mower.
- c Steam cleaner.
- d Leaf blower.

11 What is the correct order for the following tasks that **must** be completed when stopping a vehicle?

- 1 Out of gear.
- 2 Remove the keys.
- 3 Handbrake on.
- 4 Engine off.

- a 1, 2, 4 and 3.
- b 3, 1, 4 and 2.
- c 2, 1, 4 and 3.
- d 4, 3, 1 and 2.

12 When is it safe to use a vehicle?

- a Low on fuel.
- b Overloaded with materials.
- c Carrying unsecured materials.
- d Over inflated tyres.

13 Which of the following could cause a serious accident when operating a chainsaw?

- a Contact with stationary blade.
- b Contact with sawdust.
- c Contact with moving blade.
- d Contact with oil.

14 **Statement 1:**

Tipping a trailer on even ground is best practice.

Statement 2:

Using trailer with uneven tyre pressures is unsafe.

Which of the following is correct for the statements above?

	Statement 1	Statement 2
a	True	False
b	False	False
c	True	True
d	False	True

- 15 Which one of the following is always classified as fresh water?
- a Lagoon.
 - b Sea.
 - c Estuary.
 - d Pond.

- 16 What does the term 'wildlife conservation' mean?
- a Removing existing habitats.
 - b Improving agricultural production.
 - c Maintaining habitats and biodiversity.
 - d Creating environments for livestock.



Figure 5

- 17 What animals would **most** likely be found in the habitat shown in Figure 5?
- a Hares.
 - b Newts.
 - c Squirrels.
 - d Badgers.
- 18 What is meant by the term 'deciduous'?
- a Flowers all year.
 - b Sheds leaves in winter.
 - c Keeps its leaves all year.
 - d Does not flower.
- 19 Which of the following is the correct meaning for the terms Flora and Fauna?

	Flora	Fauna
a	Animals	Soil
b	Animals	Pests
c	Plants	Climate
d	Plants	Animals



Source www.google.com

Figure 6

- 20 The plant in Figure 6 is **most likely** to be found in which one of the following habitats?
- a Moorland.
 - b Freshwater.
 - c Grassland.
 - d Estuaries.
- 21 What is the change in global and regional climate patterns known as?
- a Global warming.
 - b Weather change.
 - c Indian summer.
 - d Seasonal adjustment.
- 22 Which of the following are examples of Fauna?
- a Leech, Rudd, Ramshorn Snail.
 - b Toad, Rudd, Water Aven.
 - c Ramshorn Snail, Duckweed, Leech.
 - d Duckweed, Water Aven, Rudd.
- 23 Which one of the following species is native to the UK?
- a Pheasant.
 - b Zander.
 - c Grey squirrel.
 - d Roe deer.
- 24 Which one of the following is a protected species?
- a Fox.
 - b Stoat.
 - c Weasel.
 - d Pine Marten.

25 **Statement 1:**
All primary producers obtain their energy from the sun.

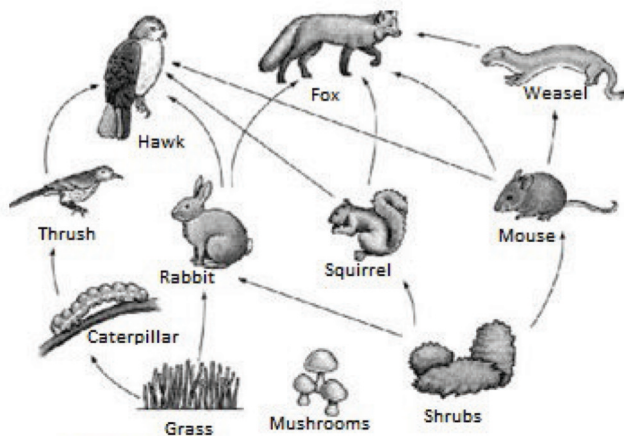
Statement 2:
An apex predator is a primary consumer within a food chain.

Which of the following is correct for the statements above?

	Statement 1	Statement 2
a	True	False
b	False	False
c	False	True
d	True	True

26 A series of organisms **each** dependent on the next as a source of food, **best** describes which of the following?

- a Food link.
- b Food chain.
- c Energy web.
- d Weakest link.



Source www.pinterest.com

Figure 7

27 Which **two** animals shown in Figure 7 are classed as Tertiary consumers?

- 1 Rabbit.
 - 2 Hawk.
 - 3 Fox.
 - 4 Thrush.
- a 1 and 2.
 - b 2 and 3.
 - c 1 and 3.
 - d 4 and 1.

28 Which one of the following is **not** territorial behaviour?

- a Scent marking.
- b Rutting.
- c Browsing.
- d Lekking.

29 Which **two** of the following statements are true about grazing?

- 1 Grazing is seen among herbivores.
- 2 Thrush is an example of a grazing animal.
- 3 Grazing is an abiotic factor within the ecosystem.
- 4 Grazing animals are not predators.

- a 1 and 3.
- b 3 and 4.
- c 2 and 3.
- d 1 and 4.

30 What does a food chain always start with?

- a Primary producer.
- b Tertiary consumer.
- c Primary consumer.
- d Secondary consumer.

31 In a lake, you are not likely to find small pike and large pike in the same area.

Which one of the following behaviours is this an example of?

- a Social.
- b Competition.
- c Territorial.
- d Predatory.

32 Which one of the following is the correct combination for the legislation **and** its principles?

	Legislation	Principles
A	Animal Welfare Act 2009	To protect wild animals from poaching.
B	Wildlife and Countryside Act 1990	To prohibit certain methods of killing wild animals.
C	Animal Welfare Act 2006	To protect the welfare of animals under the control of man.
D	Wildlife and Countryside Act 1981	To protect the welfare of animals under the control of man.

- a D
- b C
- c A
- d B

33 What does R.S.P.B stand for?

- a Rare Species Planning Board.
- b Royal Society for the Protection of Birds.
- c Rare Species Protection Board.
- d Royal Society for Protection of Bats.

34 Why do farmers receive Agri-environmental payments?

- a To pay for new machinery.
- b To pay for annual holidays.
- c To pay for maintaining habitats.
- d To pay for maintaining machinery.



Source www.mouldsfencing.com

Figure 8

35 What part of the fence is shown by the blue arrow in Figure 8?

- a Strainer post.
- b Fence strut.
- c Thrust plate.
- d Intermediary post.

36 Which one of the following surfaces would **not** be suitable for pushchair users?

- a Tarmac.
- b Loose woodchip.
- c Concrete.
- d Boardwalk.



Source www.richmondsgroundcare.co.uk

Figure 9

37 What is the tool in Figure 9 used for?

- a Extracting staples.
- b Loosening wire.
- c Tightening/tensioning wire.
- d Extracting nails.

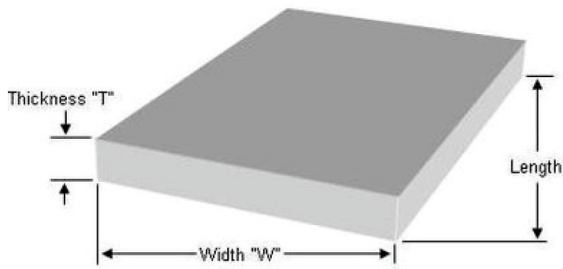


Figure 10

Width is 1000 cm
 Length is 5000 cm
 Thickness is 10 cm

38 Calculate, in m^3 , the volume of the concrete base in Figure 10.

- a $20 m^3$
- b $40 m^3$
- c $50 m^3$
- d $70 m^3$



Source <https://www.gemplers.com/>

Figure 11

39 What would the tool in Figure 11 be used for?

- a Tensioning wire and removing stones.
- b Cutting branches and removing stones.
- c Tensioning wire and cutting branches.
- d Cutting wire and removing staples.

40 When hedge laying, a pleacher is the term used to describe

- a a partially severed branch
- b new growth of the hedge
- c branches which are to be removed
- d the stakes used to hold the cut branches in place.

41 Which plant species is **not** suitable for pollarding?

- a Ash.
- b Oak.
- c Willow.
- d Western Hemlock.



Source www.saps.plantsci.cam.ac.uk

Figure 12

42 Which hedgerow species' leaves are shown in Figure 12?

- a Hazel.
- b Field maple.
- c Blackthorn.
- d Dogwood.

To answer questions 43 and 44 you must refer to Scenario 1.

Scenario 1

You have been asked to undertake an ecological survey for small mammals in the North Yorkshire Moors, in an area which has upland grazing as part of its SSSI management plan.

As part of the survey you will need to erect a rectangular temporary enclosure, which has a 60 cm high screen, with posts every 3 m and with an overall length of 300 m.

- 43 Which one of the following will need to be considered before commencing the survey?
- a Animal Welfare Act 2006.
 - b Wildlife and Countryside Act 1981.
 - c Protection of Birds Act 1954.
 - d National Parks and Access to the Countryside Act 1949.
- 44 How many posts will be required to erect the screen?
- a 90
 - b 91
 - c 100
 - d 101

To answer questions 45 and 46 you must refer to Scenario 2.

Scenario 2

A land owner has recently invested in a new 100 ha area of land adjacent to his existing block of arable lowland, with the intention of making changes to the site to improve its profitability.

Within the area of land there is a 50 ha SSSI containing rare wild flowers and invertebrates. The land is categorised as in 'favourable condition'.

- 45 Which term **best** describes 'favourable condition'?
- a Habitats and features are in a healthy state and are being conserved by appropriate management.
 - b Site is in a recovering condition and if current management measures are sustained the site will recover over time.
 - c Special features are not being conserved, so without appropriate management the site will never reach recovering condition.
 - d There has been fundamental damage to the site, where special features have been permanently lost.

- 46 Which organisation would the land owner need to approach before making any changes to the management plan for the SSSI?
- a Joint Nature Conservation Committee.
 - b Environment Agency.
 - c Natural England.
 - d Forestry Commission.

To answer questions 47 and 48 you must refer to Scenario 3.

Scenario 3

You have seen a job advert in a local publication that you would like to apply for. The post is for an assistant estate worker. The advert asks for applications in writing with an up to date CV. As part of the interview process you have been asked to construct a 12 m stock wire fence to demonstrate your skills.

- 47 What are the key headings required on your CV?
- a Name, address, education, skills, hobbies.
 - b Name, address, skills, hobbies, social life.
 - c Address, skills, interests, hobbies, social network.
 - d Social life, experience, hobbies, name.
- 48 What order from the following steps would be followed to construct the stock wire fence?
- 1 Measure and mark the area.
 - 2 Attach and tension wire.
 - 3 Risk assess the area.
 - 4 Dig in intermediate post.
 - 5 Select appropriate tools.
 - 6 Construct the straining posts.
 - 7 Select appropriate PPE.
 - 8 Clean and store tools.
- a 1, 2, 3, 5, 6, 7, 4 and 8
 - b 3, 7, 5, 1, 6, 4, 2 and 8
 - c 2, 5, 4, 6, 3, 1, 7 and 8
 - d 3, 1, 4, 7, 6, 5, 2 and 8

To answer questions 49 and 50 you must refer to Scenario 4.

Scenario 4

You have been working on a fishery, stocktaking the fish population by netting from a boat. You will be moving some of the fish to another lake nearby to re-stock it.

- 49 Which organisation do you need to contact in order to do this work?
- a Natural England.
 - b Canal and River Trust.
 - c Environment Agency.
 - d The Angling Trust.

50 Why should you clean and dry your boat, equipment and PPE before entering the second lake?

- a To see if it has been damaged.
- b To ensure you look professional.
- c So that you do not unintentionally transfer fauna and flora.
- d You can use the water supply at the first lake.

NOW GO BACK AND CHECK YOUR WORK

- **IMPORTANT -**
Are the details at the top of the answer sheet correct?
Have you filled in your answers in INK in the appropriate boxes on the answer sheet?