



0173-524 MARCH 2022

Level 2 Technical Certificate in Land and Wildlife

Level 2 Land and Wildlife – Theory Exam

Thursday 17 March 2022
09:30 – 11:30

You should have the following for this examination

- a multiple-choice answer sheet
- a pen with black or blue ink
- a 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"/>	<input type="radio"/>	<input type="radio"/>
	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"/>	<input type="radio"/>	<input type="radio"/>
	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"/>	<input checked="" type="radio"/>	<input type="radio"/>
	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 Which one of the following **best** describes the role of a fishery bailiff?
- a A person who volunteers to work with fish.
 - b A person who specialises in fly fishing.
 - c A person who inspects rod licences or permits.
 - d A person who acts as an agent for the sale of fisheries.

- 2 Which is a key role of the Joint Nature Conservation Committee?
- a Principal advisor to the Environment Agency.
 - b Statutory advisor to the UK Government.
 - c Sets up recreation facilities in woodlands.
 - d Sets up recreation facilities along waterways.

3 **Statement 1**
A referee is a person who knows you and is willing to describe you, in order to support a job application.

Statement 2
Personal details on a CV would include name, address and contact details.

Which of the following is correct for the statements above?

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

- 4 Which **three** statements would provide the **most** accurate definition of a casual worker?
- 1 They occasionally do work for a specific business.
 - 2 It includes undertaking work that is not paid.
 - 3 The business doesn't have to offer them work and they do not have to accept it.
 - 4 They can't send someone else to do their work.
 - 5 They work every day for the same employer.
 - 6 The business does not need to provide them with PPE relevant to the work.

- a 1, 4 and 6.
- b 1, 3 and 4.
- c 2, 5 and 6.
- d 2, 3 and 5.

5 **Statement 1**
In a cover letter, when you know the name of the person you are writing to eg Dear Mr Jones, **Yours sincerely** should be used.

Statement 2
In a cover letter when the name of the person you are writing to is unknown eg Dear Sir/ Madam, **Yours faithfully** should be used.

Which of the following is correct for the statements above?

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



Image source: <https://amazon.com>

Figure 1

6 Identify the machine in Figure 1.

- a Brushcutter.
- b Mower.
- c Pressure washer.
- d Winch.



Image source: www.outdoorgb.com

Figure 2

7 The item of Personal Protective Equipment (PPE) shown in Figure 2 is worn when operating which type of machine?

- a ATV.
- b Tractor.
- c Boat.
- d Machine mower.

8 Which of the following would be considered 'wear and tear' on a chainsaw?

- a Damage to guide bar due to no chain oil being used.
- b Damage due to incorrect handling and storage.
- c A chain becoming blunt through regular use.
- d Engine seized because no two-stroke oil was added to the fuel mixture.



Image source: www.amazon.com

Figure 3

9 What would the machinery attachment in Figure 3 **most** likely be used for?

- a Laying hedges.
- b Knocking in fence posts.
- c Transporting fence posts.
- d Pollarding trees.

10 For which cutting task is a nylon line trimmer head **most** suitable?

- a Gorse.
- b Mature bramble.
- c Coppice.
- d Long grass.

- 11 Which is the correct order for refuelling a brush cutter?
- 1 Stop the machine, ensuring the head is stationary.
 - 2 Refill with the correct oil and fuel mixture.
 - 3 Remove debris from around the filler cap.
 - 4 Store fuel in a safe place before re-starting.
- a 1, 3, 2, 4.
 b 1, 2, 3, 4.
 c 2, 1, 3, 4.
 d 2, 3, 4, 1.

- 12 Which of the following would ensure the safe operation of a tractor?
- 1 Watching out for obstacles and blind-spots.
 - 2 Taking care with implements such as bale spikes.
 - 3 Transporting loose tools on the floor of the cab.
 - 4 Taking your time and never rushing.
 - 5 Allowing a build-up of mud in the cab to reduce noise.
 - 6 Never getting on or off a moving tractor.
- a 1, 2, 4 and 6.
 b 1, 3, 4 and 5.
 c 2, 3, 5 and 6.
 d 2, 4, 5 and 6.

13 **Statement 1**
 Side-by-side all-terrain vehicles (ATVs) are designed for carrying two or four people and sometimes are referred to as utility task vehicles (UTVs) or rough terrain vehicles (RTVs).

Statement 2
 Sit-astride ATVs are designed for carrying two people and may also be referred to as quad bikes.

Which of the following is correct for the statements above?

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

14 **Statement 1**
 Pressure washing produces mists that may contain harmful substances such as cleaning agents, oil, mud residues and disease organisms.

Statement 2
 Nearby electrical fittings do **not** need to be waterproofed when pressure washing.

Which of the following is correct for the statements above?

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



Image source: <https://www.naturespot.org.uk>

Figure 4

15 In which habitat would the plant in Figure 4 **most** likely be found?

- a Woodland.
- b Marine.
- c Wetland.
- d Grassland.

16 Which image shows an **urban** habitat?

a



Image source: <https://www.businessmag.co.uk>

b



Image source: www.finestproperties.co.uk

c



Image source: www.dailymail.co.uk

d



Image source: www.britainexplorer.com

- 17 A peat bog is **most** likely to be found in which type of habitat?
- a Woodland.
 - b Urban.
 - c Moorland.
 - d Marine.

- 18 Which of the following defines a **food chain**?
- a A parasite lives off another organism harming the host.
 - b The feeding relationship that exists in an ecosystem.
 - c When animals compete for food, water and space.
 - d When plants compete for light, water, minerals and root space.

- 19 When the planning process is undertaken to improve biodiversity, a methodology should be considered.

What is the definition of a **methodology**?

- a Where the work will be done.
- b How the work will be done.
- c Why the work is being done.
- d When the work will be done.

- 20 For which habitat management tasks would you **most** likely use loppers?

- a Levelling ground surfaces.
- b Cutting small branches.
- c Pollarding large trees.
- d Cutting grassed areas.

- 21 Which is **most** likely to be the producer in a food chain?

- a Sun.
- b Grass.
- c Fungi.
- d Worms.

- 22 What is the designation 'Special Protection Area' (SPA) intended to protect?

- a Birds.
- b Plants.
- c Geology.
- d Insects.

- 23 A marine nature reserve conserves features of special interest in which type of habitat?

- a Ponds.
- b Lakes.
- c Rivers.
- d Seas.

- 24 Which is the **best** time of year to pollard trees to minimise disturbance and damage?

- a Late winter to early spring.
- b Late spring to early summer.
- c Early summer to late autumn.
- d Late summer to early autumn.

- 25 Which one of the following statements **best** describes the term **precipitation**?

- a It is associated with location, grid references and postcodes.
- b It is associated with temperature and degrees centigrade or Fahrenheit.
- c It is associated with soil type, sand, clay and loam.
- d It is associated with climate; examples include hail, snow and rain.

- 26 Which is the primary piece of legislation that protects wild animals **and** plants in the UK?

- a Countryside and Rights of Way Act (2000).
- b Wildlife and Countryside Act (1981).
- c Animal Welfare Act (2006).
- d Environmental Protection Act (1990).

- 27 **Statement 1**

Deciduous woodland includes trees with broad leaves for example, oak, ash, beech and birch.

Statement 2

Coniferous woodland includes trees with needles for example, willow, chestnut, hawthorn and lime.

Which of the following is correct for the statements above?

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



Image source: <https://www.woodsmithexperience.co.uk>

Figure 5

28 **Statement 1**
The tool in Figure 5 is a billhook.

Statement 2
The tool in Figure 5 is used for hedge laying.

Which of the following is correct for the statements above?

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

29 **Statement 1**
Mulching is a woodland management technique of felling trees at the base and allowing them to regrow.

Statement 2
Mulches can help soil retain moisture in summer and prevent weeds from growing.

Which of the following is correct for the statements above?

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

30 **Statement 1**
An organism that lives in or on another species and benefits by gaining nutrients at the other's expense, is an example of social behaviour.

Statement 2
Territorial boundaries may be marked for example by bird song or scent marking by mammals.

Which of the following is correct for the statements above?

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

31 Which statements are correct?

- 1 Arisings can include offcuts of cut vegetation.
 - 2 Arisings is the term for newly sprouted weeds.
 - 3 Burning is a form of disposing of arisings.
 - 4 Brushing is a form of disposing of arisings.
- a 1 and 3.
b 2 and 4.
c 3 and 2.
d 4 and 1.

32 Which of the following are examples of **abiotic** factors?

- 1 Climate.
 - 2 Soil.
 - 3 Flora.
 - 4 Temperature.
 - 5 Competition.
 - 6 Predation.
- a 1, 3 and 5.
b 2, 4 and 6.
c 2, 3 and 4.
d 1, 2 and 4.

33 **Statement 1**
 'Weed control' attempts to stop unwanted flora species from competing with desired flora species.

Statement 2

In woodland management, thinning is the selective removal of trees, primarily undertaken to improve the growth rate or health of the remaining trees.

Which of the following is correct for the statements above?

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

34 **Statement 1**
 A drivall is used as a lever for moving heavy objects such as rocks and for making post holes.

Statement 2

A bar is used for driving in large wooden posts.

Which of the following is correct for the statements above?

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

35 What is the **main** reason a thrust plate is used in a fence line?

- a To deter livestock from rubbing against it.
- b To fix the barbed wire to.
- c To keep the strainer post stable.
- d To fix the stock netting to.



Image source: <http://www.farmandcountryfencing.com/shop/tools.html>

Figure 6

36 Identify the tool in Figure 6.

- a Monkey strainers.
- b Fencing pliers.
- c Spirit level.
- d Auger.

37 Which are the **most** appropriate uses for a mallet?

- a Driving nails into and pulling nails from a fencepost.
- b Carving or cutting a fencepost.
- c Measuring or cutting angles.
- d Knocking wooden joints together or to strike a chisel.

38 Which tools are **most** likely to be used for the construction of a woodchip path?

- a Measuring tape, shovel, string line, rake.
- b Shovel, string line, loppers, billhook.
- c Measuring tape, shovel, rake, secateurs.
- d Rake, loppers, secateurs, billhook.

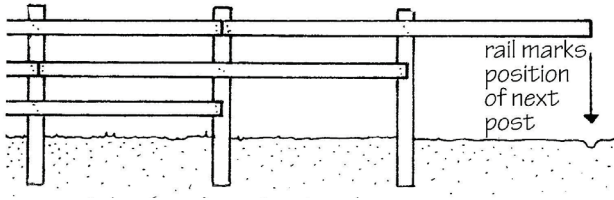


Image source: <https://www.conservationhandbooks.com/how-to-build-a-fence/>

Figure 7

- 39 What is the **main** reason the rails are staggered in the diagram in Figure 7?
- a Looks more aesthetically pleasing.
 - b Increases the strength of the fence.
 - c It is how the lengths of rail are produced.
 - d The rails become easier to remove if they break.



Image source: www.meshdirect.co.uk/

Figure 8

- 40 What type of fencing is the mesh in Figure 8 **most** suitable for?
- a Fencing off an area to protect against rabbits.
 - b Fencing off an area to protect against voles.
 - c Fencing off an area to protect against deer.
 - d Fencing off an area to protect against sheep.

- 41 Which statements **best** describe a spirit level **and** its use?
- 1 It is a length of flexible metal, marked at graded intervals for measuring.
 - 2 It includes a sealed glass tube of liquid, containing an air bubble.
 - 3 It measures in imperial and metric scales.
 - 4 Its main use is to tamp down soil.
 - 5 It can be used to check if a surface is horizontal or vertical.
 - 6 Has to be handled with care during use to maintain accuracy.

- a 1, 3 and 4.
- b 1, 5 and 6.
- c 2, 3 and 4.
- d 2, 5 and 6.

- 42 **Statement 1**
A set square is used to mark out 90 degree angles.

Statement 2
A wheelbarrow is designed so heavier loads can be transported than could be carried solely by the operator.

Which of the following is correct for the statements above?

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

To answer questions 43, 44, 45 and 46 you must refer to Scenario 1.

Scenario 1

A countryside ranger is overseeing the work of a group of workers undertaking habitat management in a woodland containing hazel, spruce and beech. The workers can claim expenses for travel to the site but are not paid an hourly rate.

One of the jobs to be undertaken is a coppicing task. Red squirrels (a native, protected species) and grey squirrels, have been identified as potentially being affected by the work.

43 **Statement 1**
The workers are classified as part-time employees.

Statement 2
All of the tree species are suitable for coppicing.

Which of the following is correct for the statements above?

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

44 Which **three** tools are the **most** suitable for the habitat management task?

- 1 Bow saw.
- 2 Loppers.
- 3 Secateurs.
- 4 Spirit level.
- 5 Auger.
- 6 Billhook.

- a 1, 2 and 6.
- b 2, 3 and 5.
- c 3, 4 and 6.
- d 4, 5 and 1.

45 When planning the work, which legislation would need to be referred to?

- a National Parks and Access to the Countryside Act (1949).
- b Wildlife and Countryside Act (1981).
- c Environmental Protection Act (1990).
- d Animal Welfare Act (2006).

46 What type of relationship exists between the species identified as being affected by the coppicing work?

- a Predator-prey.
- b Parasitic.
- c Competition.
- d Social.

To answer questions 47 and 48 you must refer to Scenario 2.

Scenario 2

You are assisting the technician in a college taking a group of students to work in industry for a week on a river habitat management task.

There are scattered shrubs and overhanging trees along the bankside.

Water voles are present on site. Their habitat requirements include un-shaded areas of bankside to allow growth of grass species.

47 Which organisation **and** classification of habitat is the group likely to be working with?

- a Environment Agency **and** freshwater.
- b Joint Nature Conservation Committee **and** freshwater.
- c Environment Agency **and** marine.
- d Joint Nature Conservation Committee **and** marine.

48 Which **two** tools are the **most** appropriate to undertake bankside management to improve the water vole habitat?

- 1 Roller.
- 2 Brushcutter.
- 3 Hedge cutter.
- 4 Chainsaw.
- 5 Leaf blower.
- 6 Whacker plate.

- a 1 and 3.
- b 2 and 4.
- c 4 and 6.
- d 5 and 6.

To answer questions 49 and 50 you must refer to Scenario 3.

Scenario 3

You have been invited to an interview as a National Park Ranger. The main habitat in the National Park is grassland.

49 **Statement 1**

Responsibilities of the role include a range of activities that benefit both the natural environment, public access and recreation.

Statement 2

Responsibilities of the role include enforcing speed limit restrictions through the area.

Which of the following is correct for the statements above?

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

50 Which are the **most** appropriate pieces of machinery or attachments for managing the habitat?

- a Mower, sprayer, harrow.
- b Roller, sprayer, pallet forks.
- c Roller, whacker-plate, harrow.
- d Whacker-plate, mower, pallet forks.

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?