





0170-501 MARCH 2018 Level 2 Technical Award in Land-based Studies

Level 2 Land Based Studies - Theory exam (1)

| If provided, stick your candidate barcode label here. | Wednesday 14 March 2018 09:30 – 11:30 |
|---|--|
| Candidate name (first, last) | |
| First | |
| Last | |
| | te of birth (DDMMYYYY) Gender (M/F) |
| Assessment date (DDMMYYYY) Cen | ntre number Candidate signature and declaration* |
| | |
| Please ensure that you staple addition booklet, clearly labelling them with you and qualification number in BLOCK CA. All candidates need to use a black/b. If provided with source documents, the and will be shredded. Do not write on the state of the shredded. I declare that I had no prior know the shredded. | Dlue pen. Do not use a pencil or gel pen. hese documents will not be returned to City & Guilds, |

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 11 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 | a) | State two responsibilities of the Environment Agency. | (2 marks) |
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| | b) | Describe two ways in which the Royal Society for the Protection of Birds (RSPB) supports the management of agricultural land in England. | (2 marks) |
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| 2 | a) | Describe four different intensive farming practices. | (4 marks) |
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| b) | Explain two reasons for intensive farming. | (2 marks) |
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| c) | Intensive use of fertilisers can have an impact on the environment. Explain the stages of eutrophication. | (4 marks) |
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a)

b)

| List the four components of soil. | (4 marks) |
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| Explain two advantages and two disadvantages of growing plants in a clay rich soil. | (4 marks) |
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| Describe three differences between the digestive system of a cow and a dog. | (3 marks) |
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| Explain three reasons why it is important to keep records when feeding animals. | (3 marks) |
| Explain times reasons why it is important to keep records when recaing animals. | (3 marks) |
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| , | Describe three factors that can affect the germination rate of seeds. | (6 marks |
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| 3 | List four pieces of equipment that could be used on a farm for forage production. | (4 marks |
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| Describe four restrictions affecting staff when operating land based machinery. | (4 marks) |
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| Explain two ways in which advances in DNA technology have helped reduce disease in plants and animals. | (2 marks) |
| in plants and animals. | (Z IIIdi KS) |
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| iscuss the benefits and conflicts related to using modern technology in agriculture nd make suggestions on how the impacts can be minimised. | (12 marks |
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