





0171-512 MARCH 2018 Level 3 Advanced Technical Extended Diploma in Agriculture (Arable)

Level 3 Agriculture – Theory exam (2)

If provided, stick your candi barcode label here.	Friday 16 idate 13:30 – 15	March 2018 5:30
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 any additional answer sheets Please ensure that you staple booklet, clearly labelling them and qualification number in BLC All candidates need to use a bl If provided with source docume and will be shredded. Do not w I declare that I had no prior and that I will not divulge to a 	additional answer sheets to t with your full name, enrolment DCK CAPITALS. ack/blue pen. Do not use a ents, these documents will no write on the source document knowledge of the question	the back of this answer t number, centre number pencil or gel pen. ot be returned to City & Guilds, ts. ns in this assessment

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 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	a)	State two types of organic waste from crop production processes.	(2 marks
	b)	For one of the wastes mentioned in 1a), explain how it can safely be disposed of on the farm.	(1 mark
2	a)	What does the acronym NVZ stand for?	(1 mark
	b)	Describe four constraints put on a farmer in an NVZ.	(4 marks

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a)	State one facility for storing inorganic waste on a farm.	(1 mark
b)	Describe two methods of managing inorganic waste on a farm.	(2 marks
c)	Describe one way of reducing the amount of organic waste stored on a farm.	(1 mark

	(1 mar
ii) Abiotic.	(1 mar
Name one example of a biotic factor.	(1 mar
Name one example of an abiotic factor.	(1 mar
Explain two ways of improving habitat diversity on an arable farm.	(4 mark

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7

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(4 marks)	

Des	scribe four methods of reducing drift when spraying with a hydraulic boom sprayer.	. (4 marks)
a)	What does the acronym SSSi stand for?	(1 mark)
b)	State one feature of an SSSi.	(1 mark)

 ${\sf Explain} \, \textbf{four} \, {\sf consequences} \, {\sf of} \, {\sf ignoring} \, {\sf The} \, {\sf Nitrates} \, {\sf Directive} \, {\sf legislation}.$



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10	a)	Name two types of transmission system of Rough Terrain Telescopic Forklifts (RTFL) that use oil to transmit power.	(2 marks)
	b)	State two advantages of the transmission systems named in 10a), in comparison to manual transmission.	(2 marks)
11	a)	Explain two reasons why it is important to keep the boom retracted (closed) on a Rough Terrain Telescopic Forklift (RTFL) when travelling.	(2 marks)
	b)	What safety device is fitted in the cab to help prevent the operator overloading a Rough Terrain Telescopic Forklift (RTFL)?	(1 mark)
12	Wh	en travelling on steep slopes with an ATV, which is the safest direction of travel?	(1 mark)