



Rewarding Learning

General Certificate of Secondary Education
2016

Centre Number

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Candidate Number

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Engineering

Paper 2
Assessment Unit 3
assessing
Engineering Technology



GEE32

[GEE32]

MONDAY 6 JUNE, AFTERNOON

TIME

1 hour.

INSTRUCTIONS TO CANDIDATES

Write your Centre Number and Candidate Number in the spaces provided at the top of this page.

Write your answers in the spaces provided in this question paper.

Answer **all** parts of the one question in this paper.

The paper should be answered in relation to the Pre-Release Material.

You will be provided with a new copy of the Pre-Release Material.

You should **not** bring any of the material previously issued, or any notes made, into this examination.

INFORMATION FOR CANDIDATES

The total mark for this paper is 40.

Figures in brackets printed down the right-hand side of pages indicate the marks awarded to each part question.

Quality of written communication is assessed in question (g).

For Examiner's
use only

Question Number	Marks
(a)	
(b)	
(c)	
(d)	
(e)	
(f)	
(g)	

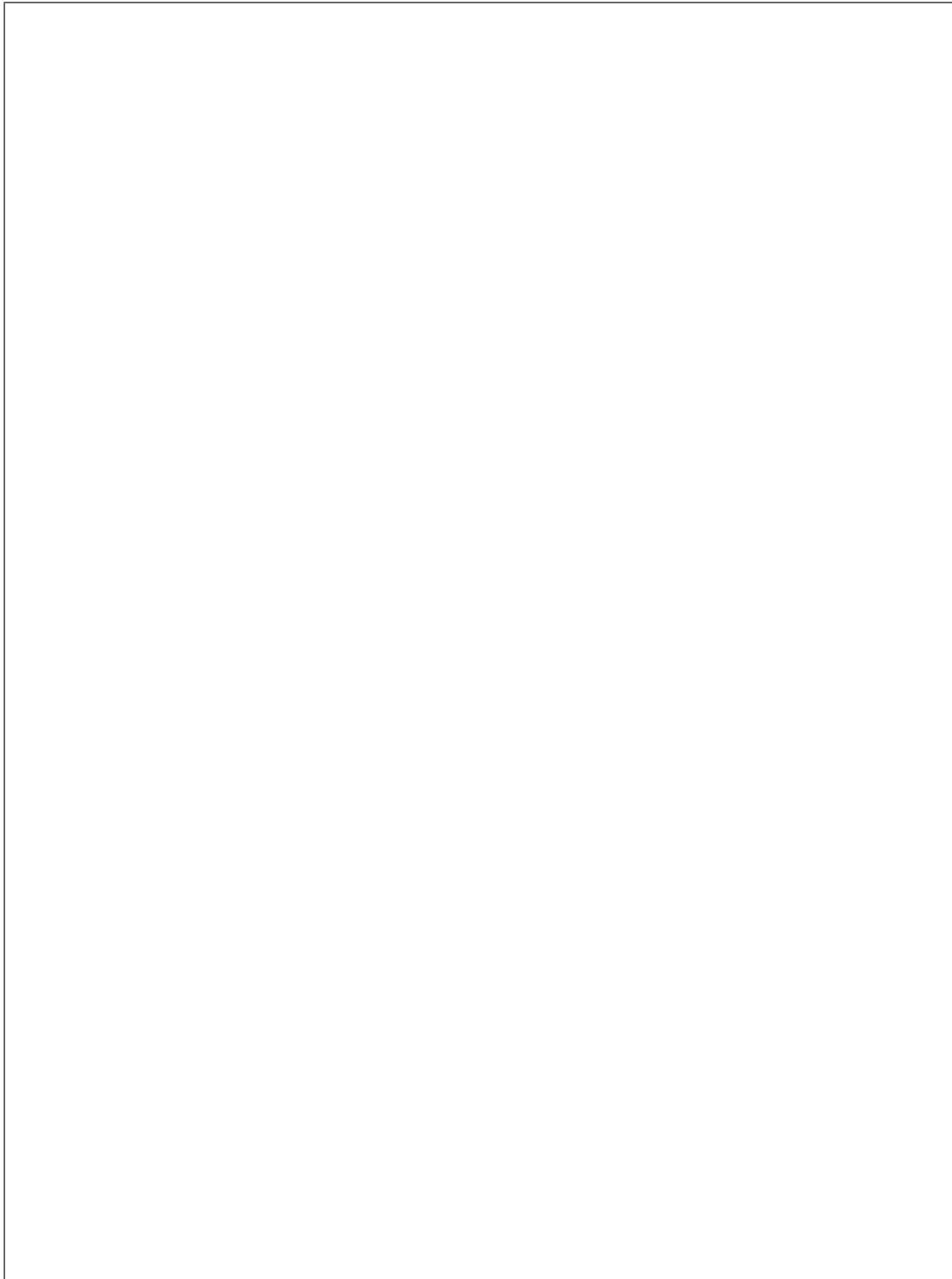
Total Marks	
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(f) In the box below, using annotated sketches and correct terminology, show how the sides of the portable garden trolley can:

- fold down;
- be detached.

Marks will be awarded for

- Detail contained in sketches [4]
- Quality of sketches [3]
- Detailed notes [3]



[10]

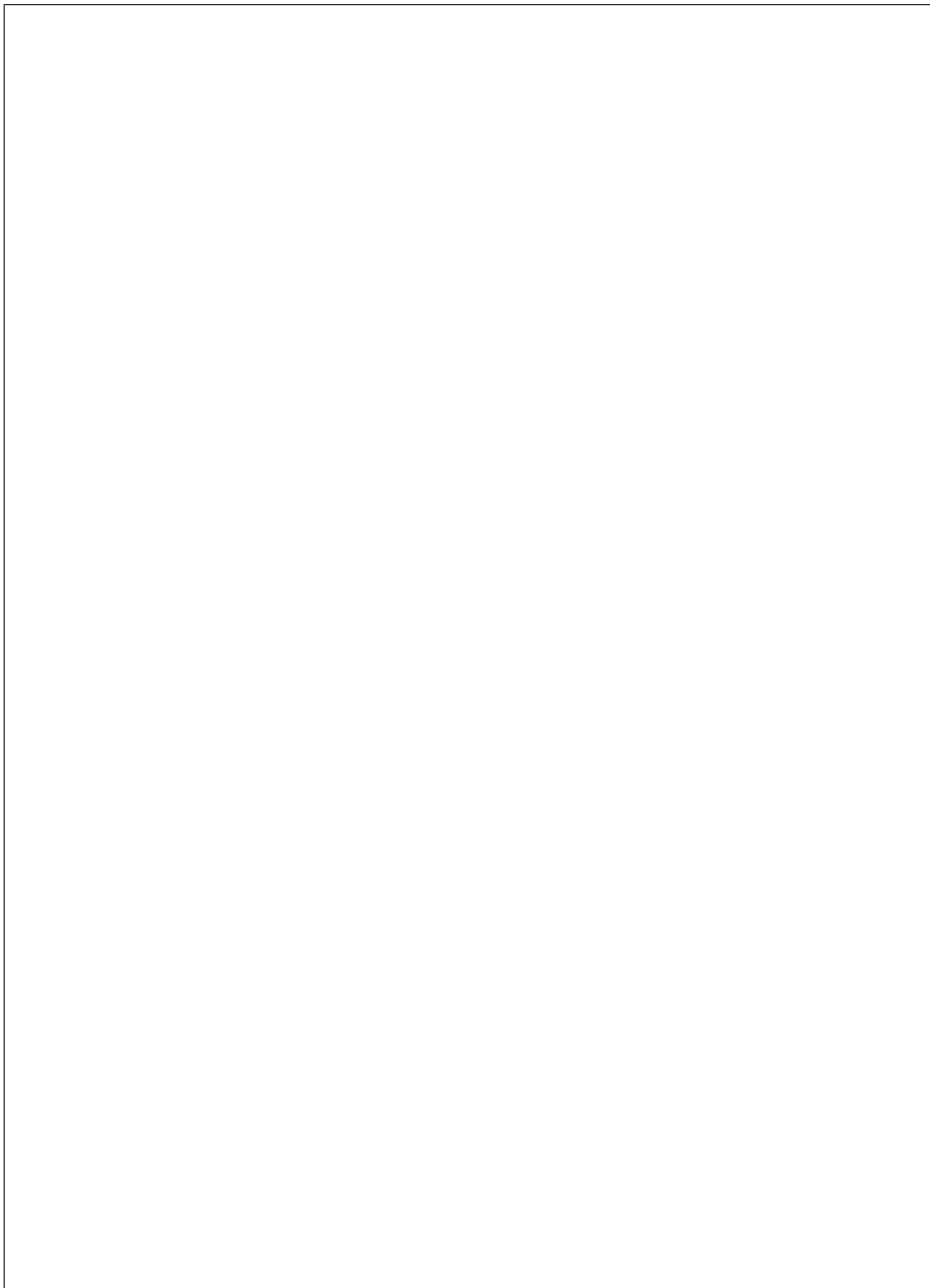
Examiner Only	
Marks	Remark

(g) The material used for the frames of the side panels of the garden trolley is manufactured by a process known as extrusion. In the box below produce annotated sketch/es of the extrusion process.

Marks will be awarded for

- Suitability of chosen method [4]
- Quality of sketches [3]
- Detailed notes [3]

Quality of written communication is assessed in this question.



Examiner Only	
Marks	Remark

THIS IS THE END OF THE QUESTION PAPER

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2016

Engineering

Pre-Release Material
EXAMINATION COPY

Paper 2
Assessment Unit 3
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Engineering Technology



GEE32

[GEE32]

MONDAY 6 JUNE, AFTERNOON

You must use **this** clean copy of the Pre-Release Material in the examination and **not** your own annotated copy.

Answer **all** parts of the question.

There is **one** question in the paper which relates to the pre-release material.

You should draw on the knowledge gained from the pre-release task and also Unit 3: Engineering Technology.

The image below shows a portable garden trolley.



© Rhyas heavy duty garden trolley (53380) Permission granted by Rhyas.
<http://rhyas.com/index.php/home-garden/rhyas-heavy-duty-garden-trolley.html>

Description

The heavy duty garden trolley is a great addition to any garden, smallholding or stock yard.

It has a unique handle which enables effortless steering.

The trolley is ideal for transporting pots, compost, stones, straw, riding equipment and many other items.

The drop-down sides are perfect for getting heavy items in and out – such as logs, bricks or small straw bales.

It is fitted with four wheels with bearings plus pneumatic tyres which ensure good travel over tricky ground.

Features include:

- Manufactured from mild steel
- The sides are hinged to drop for flexibility of use, or can be removed altogether to leave a flatbed trolley
- The front wheels can swivel with the front handle
- Pneumatic tyres
- Dimensions of trolley: 102 cm long × 56 cm wide × 23 cm high
- Overall height including wheels: 57 cm high
- Trolley handle length: 83 cms
- Weight: 24 kg
- Load Capacity: 300 kg

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