



Rewarding Learning

General Certificate of Secondary Education
2011

Engineering
Paper 2
Assessment Unit 3
assessing
Engineering Technology
[GEE32]
FRIDAY 20 MAY, MORNING

**MARK
SCHEME**

1	<p>(a) Very durable metal; strong; same process; Other answers considered</p> <p>(b) Robotic welding Other answers considered</p> <p>(c) High set up cost (Negative) Other answers considered</p> <p>(d) Quick to model Ideas can be modified Ideas can be saved and sent electronically (Remote manufacturing) Fast Other answers considered [2 × 2]</p> <p>(e) (i) Quality assurance – It has passed certain safety standards and hopefully the product will be safe to use and have a long shelf life.</p> <p style="padding-left: 40px;">(ii) Quality control – The product has been checked at different stages of production to ensure that the quality of the product is to a certain standard</p> <p>(f) Aluminium is a softer metal and could dent easily, easy to bend; Other answers considered</p> <p>(g) Hand trolleys can now be marketed worldwide due to the internet Other answers considered</p> <p>(h) Complex shapes can be formed. Once set up easy to reproduce Accurate, continuous; Other answers considered</p> <p>(i) To allow product development. To keep up with competitors Other answers considered</p> <p>(j) Appropriate diagram showing the extrusion process. Marks will be awarded for – Detail contained in sketches [4] – Quality of sketches [3] – Detailed notes [3]</p> <p>(k) Appropriate diagram showing how the galvanised wheel rims are manufactured and assembled together. Marks will be awarded for – Suitability of chosen method [4] – Quality of sketches [3] – Detailed notes [3] – Process – pressing – Welding – Galvanising</p>	<p>[2]</p> <p>[2]</p> <p>[2]</p> <p>[4]</p> <p>[2 × 1]</p> <p>[2]</p> <p>[2]</p> <p>[2]</p> <p>[2]</p> <p>[10]</p> <p>[10]</p>
---	---	--

AVAILABLE MARKS
40
40

Total