UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS General Certificate of Education Ordinary Level

METALWORK 6040/02

Paper 2 Practical Test

October/November 2004

3 hours

Additional Materials: As listed in Instructions to Supervisors

INSTRUCTIONS TO CANDIDATES	INSTR	UCTI	ONS 1	ГО СА	NDIDA	TES
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Please see page 2.

INFORMATION FOR CANDIDATES

All dimensions are in millimetres unless stated otherwise.

This document consists of 4 printed pages and 2 blank pages.



From the materials supplied you are to make the EMBOSSING TOOL shown in the drawing.

All dimensions are in millimetres.

The following material is supplied:

- Part 1 One piece bright drawn mild steel $18 \times 3 \times 172$ long.
- Part 2 One piece bright drawn mild steel $18 \times 3 \times 135$ long. Both ends squared.
- Part 3 One piece bright drawn mild steel $18 \times 3 \times 37$ long. One end squared.
- Part 4 One piece bright drawn mild steel 12 × 12 × 11 long. Both ends squared.
- Part 5 One piece bright drawn mild steel 12 diameter × 28 long, prepared prior to the examination.
- Part 6 One piece bright drawn mild steel 12 diameter × 6 long, prepared prior to the examination.
- Part 7 One piece bright drawn mild steel 12 diameter × 36 long, prepared prior to the examination.
- Part 8 One piece bright drawn mild steel $12 \times 3 \times 18$ long. Both ends squared.

One $\emptyset6 \times 12$ snap head rivet.

One bag in which to enclose work.

Two tie-on labels.

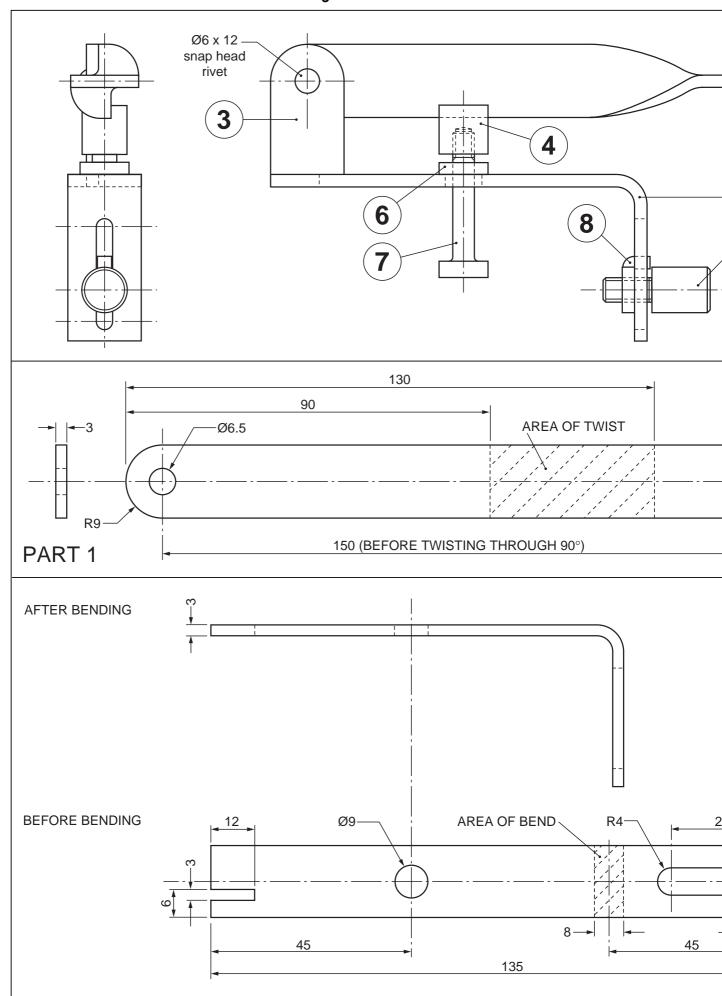
Notes

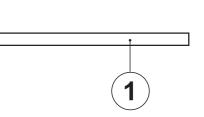
Working Procedures

- A Part 1 is twisted through 90° as indicated
- B Part 2 is bent at 90° as indicated
- C Part 3 is silver soldered onto Part 2
- D Part 6 is silver soldered onto Part 2
- E Part 1 is loose riveted to Part 3 to give a moving joint
- F Part 8 is bent at 90° as indicated

General Notes

- A second supply of material is **not** allowed. If you make a mistake do your best to work as near to the dimensions given in the drawing as possible.
- Any dimensions omitted are left to your discretion.
- Attempt to complete all the work but remember that a partly completed piece of work of good quality may gain more marks than one which is complete but inaccurate or poorly finished.
- Clean up all parts by draw filing. Emery cloth or similar must not be used.
- Write your name and examination number on the labels supplied, attach one to your work and the other to the bag in which your work is enclosed. Put into the bag all worked and unworked materials, with the exception of waste.



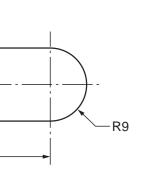


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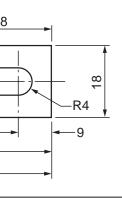
5 EN

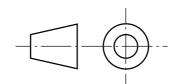
EMBOSSING TOOL

Modified for test purposes

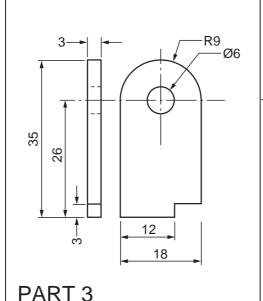


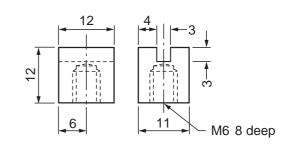
PART 2



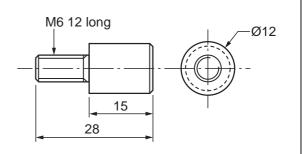


Dimensions in millimetres

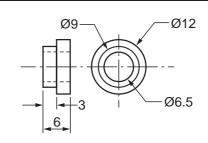




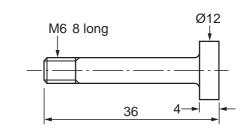
PART 4



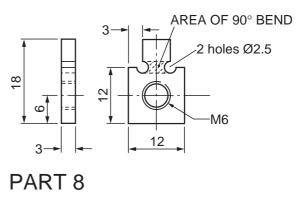
PART 5 (supplied)



PART 6 (supplied)



PART 7 (supplied)



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