

UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS
General Certificate of Education Ordinary Level

METALWORK

6040/02

Paper 2 Practical Test

October/November 2006

3 hours

Additional Materials:
As listed in the Instructions to Supervisors

READ THESE INSTRUCTIONS FIRST

Please see page 2.

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 HAND VICE shown in the drawings.

You will be required to add further shaping to Part 5 as stated in the Working Procedures below.

All dimensions are in millimetres.

The following materials are supplied:

Part 1 One piece BDMS $12 \times 12 \times 100$ long. Both ends squared.

Part 2 One piece BDMS $12 \times 12 \times 40$ long. Both ends squared.

Part 3 One piece BDMS $\varnothing 12 \times 50$ long, prepared prior to the examination.

Part 4 One piece BDMS $\varnothing 6 \times 50$ long, prepared prior to the examination.

Part 5 One piece BDMS $10 \times 2 \times 23$ long.

Part 6 One piece BDMS $25 \times 3 \times 88$ long. One end square.

One bag in which to enclose work.

Two tie-on labels.

Notes

Working Procedures

- A Part 5 should be shaped so that it is comfortable to hold.
- B After shaping, Part 5 is silver soldered to Part 3.
- C Part 4 is riveted into Part 2 and the joint filed flat.
- D Part 6 should be bent to 90° on the line shown using the former provided. The end with the 12 mm square hole should be held in the vice against the former.

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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