

UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS  
General Certificate of Education Ordinary Level

**METALWORK**

**6040/01, 6040/02**

INSTRUCTIONS

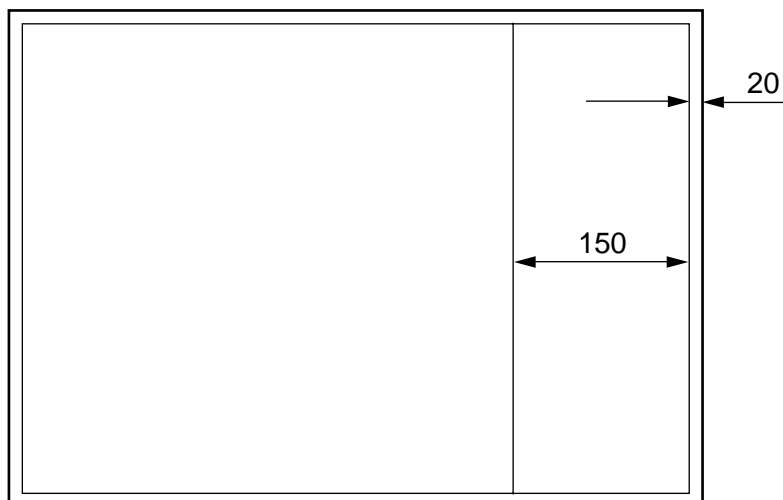
October/November 2004

**Great care should be taken that any confidential information given does not reach the candidates either directly or indirectly.**

**INSTRUCTIONS TO SUPERVISORS**

Paper 6040/1 Drawing and Design

Each candidate will require drawing instruments and one piece of good quality A2 drawing paper. This should be ruled out as shown below before the examination.



PAPER 6040/2 Practical

**Please note that all materials required for this test are to be provided locally. They will not be provided by the Syndicate.**

Candidates must **not** be allowed a second supply of material.

No assistance or information, other than that printed in the examination paper, is to be given to any candidate.

No machine other than the drilling machine and a centre-lathe may be used.

All materials cut to length are to be left from the saw, except as otherwise mentioned.

N.B. The reducing of materials to examination requirements and the preparation of special tools or parts is to be undertaken by the candidates before the examination. Failure to prepare materials as specified will seriously handicap candidates.

This document consists of 4 printed pages.



Each candidate is to be supplied with the following materials.

All dimensions are in millimetres.

One piece bright drawn mild steel 18  $\times$  3  $\times$  172 long.

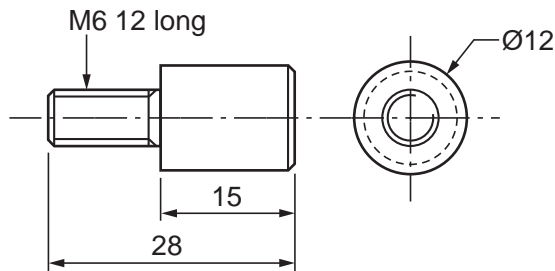
One piece bright drawn mild steel 18  $\times$  3  $\times$  135 long. Both ends squared.

One piece bright drawn mild steel 18  $\times$  3  $\times$  37 long. One end squared.

One piece bright drawn mild steel 12  $\times$  12  $\times$  11. Both ends squared.

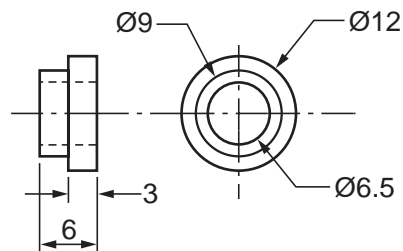
One piece bright drawn mild steel 12  $\times$  3  $\times$  18 long. Both ends squared.

One piece bright drawn mild steel 12 diameter  $\times$  28 long, prepared as Fig. 1 prior to examination.



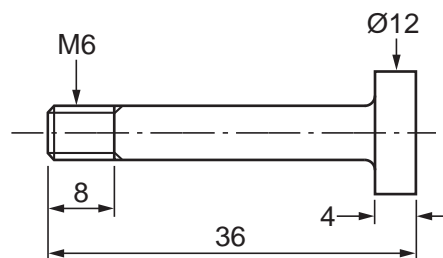
**Fig. 1**

One piece bright drawn mild steel 12 diameter  $\times$  6 long, prepared as Fig. 2 prior to examination.



**Fig. 2**

One piece bright drawn mild steel 12 diameter  $\times$  36 long, prepared as Fig. 3 prior to the examination.



**Fig. 3**

One  $\text{Ø}6 \times 12$  snap head rivet.

One bag in which to enclose work.

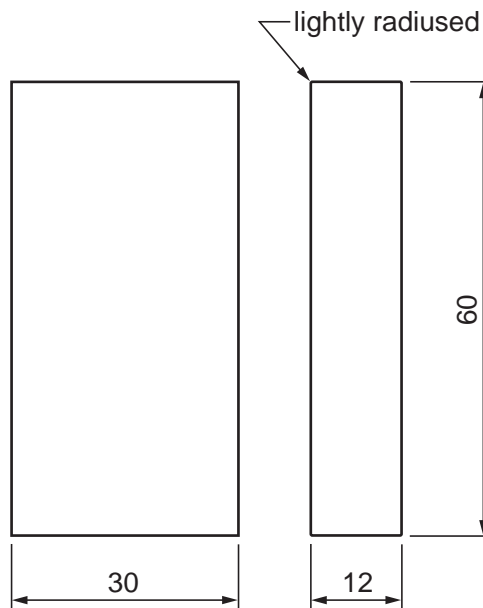
Two tie on labels.

Every **two** candidates will require:

200 or 250 second cut hand file or near;  
 150 or 200 smooth cut hand file or near;  
 150 mm warding file (or similar smooth cut to form 3 mm slot);  
 three square needle file (or similar).

Every **five** candidates will require:

M6  $\exists$  1 taps and wrench;  
 6 mm rivet set and snap;  
 Cutting compound.  
 Hardwood bending former, as shown in Fig. 4.



**Fig. 4**

Each drilling machine to be equipped with the following:

Drills: 2.5  
 5.0  
 6.0  
 6.5  
 9.0

Machine vice.

Facilities for silver soldering.

Every candidate will require silver solder and appropriate flux to make two joints.

At the end of the examination the Supervisor is requested to carry out the following.

1. To see that the name and examination number of each candidate are clearly and correctly marked on the tie-on labels and that the labels are securely fastened, one to the candidate's work and any unfinished material and the other to the bag containing the candidate's work.
2. To enter the required details on one of the envelopes intended for scripts (reading 'pieces of work' for 'scripts') and to enclose a completed attendance sheet(s).
3. To pack the work securely and send it with the envelope containing the attendance sheet(s) to University of Cambridge International Examinations.