



METALWORK

6040/01

6040/02

October/November 2008

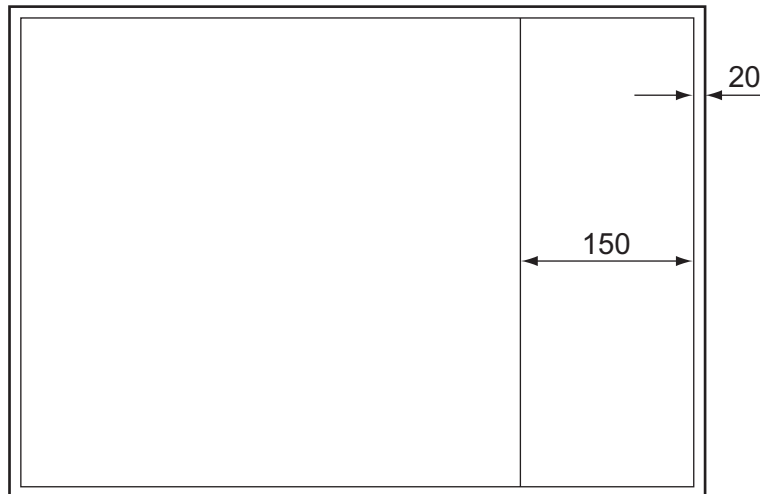
CONFIDENTIAL INSTRUCTIONS

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

READ THESE INSTRUCTIONS FIRST

Paper 6040/01 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 6040/02 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 3 printed pages and 1 blank page.



Each candidate is to be supplied with the following materials.

All dimensions are in millimetres.

One piece BDMS $20 \times 5 \times 162$ long. Both ends sawn.

One piece MS sheet $52 \times 2 \times 62$ long. One end and one edge square.

One piece BDMS $20 \times 3 \times 52$ long. One end square.

One piece BDMS $\text{Ø}8 \times 26$ long. Prepared as in Fig. 1.

One piece BDMS $20 \times 5 \times 35$ long. Both ends square.

One piece BDMS $10 \times 10 \times 30$ long. Both ends square.

Two pieces BDMS $\text{Ø}8 \times 6$ long. Prepared as in Fig. 2.

Two $\text{Ø}3 \times 15$ long round head steel rivets.

(3.2 mm or 4.0 mm rivets can be supplied if 3 mm not available but allowance will need to be made for set/snap and drill size. Prepared parts in Fig. 2 will also need to be drilled to suit.)

One M6 $\times 12$ long cheese head or round head screw.

One M6 $\times 15$ long cheese head or round head screw and locknut.

One M6 $\times 20$ long cheese head or round head screw and locknut.

(Two standard nuts can be used for each screw if locknuts are not available.)

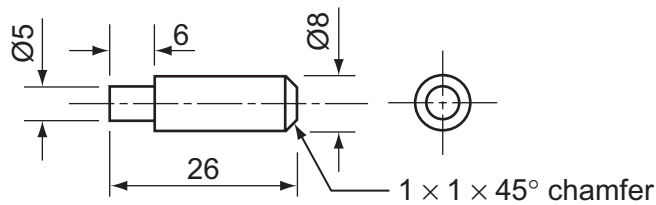


Fig. 1

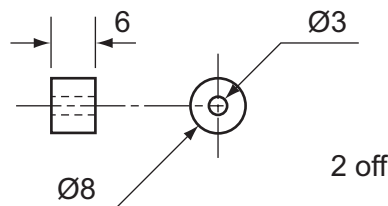


Fig. 2

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 square or three square smooth file (needs to fit in a 6 wide lot);

150 or 200 warding file (or other suitable smooth cut to fit 6 wide \times 10 long slot).

Every **five** candidates will require:

M6 taper (or second) and bottoming taps and wrench;

Cutting compound;

Rivet snap and set for $\text{Ø}3$ round head rivet.

Every candidate will require silver solder and appropriate flux to make one joint.

Each drilling machine to be equipped with:

Machine vice;

Drill 3.0 (to suit rivets supplied)

5.0

6.0

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.

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