

Candidate Name	Centre Number	Candidate Number

WELSH JOINT EDUCATION COMMITTEE
ENTRY LEVEL CERTIFICATE



CYD-BWYLLGOR ADDYSG CYMRU
TYSTYSGRIF LEFEL MYNEDIAD

725/03

Entry Level Certificate

GRAPHICAL AND MATERIAL STUDIES

(Metalcraft)

P.M. THURSDAY, 23 March 2006

(½ Hour)

Examiner only

Total Marks	
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INSTRUCTIONS TO CANDIDATES

Write your name, centre number and candidate number in the spaces at the top of this page.

Answer **all** questions.

Underline the correct answer **or** write in the spaces provided.

If you have difficulty in reading a question, put up your hand and the teacher-in-charge will read it to you.

INFORMATION FOR CANDIDATES

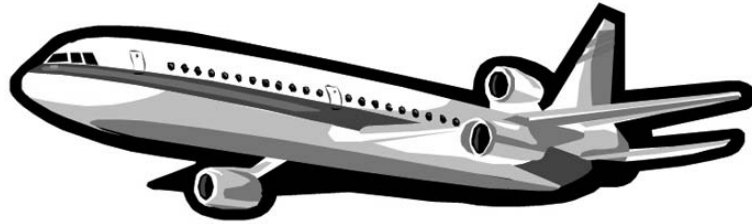
Each question carries **five** marks.

No certificate will be awarded to a candidate detected in any unfair practice during the examination.

Answer **all** questions.

Underline the correct answer or write in the spaces provided.

1. A non ferrous alloy made from copper and aluminium which is greyish in colour is used to make aircraft.



The name of this metal is **one** (1) of the following:

- (a) Brass;
- (b) Lead;
- (c) Silver;
- (d) Duralamin.

Underline the correct answer.

[5]

2. Some metals are malleable. This means that they can:

- (a) crack easily;
- (b) be spread out into thin sheets;
- (c) resist breaking;
- (d) return to the original shape after bending.

Underline the correct answer.

[5]

3. This question is about finishes applied to metal.

The sketch below shows a piece of jewellery.



“The metal is covered with powdered glass and heated.”

This finish is **one** (1) of the following:

- (a) painting;
- (b) tinsplating;
- (c) enamelling;
- (d) lacquering.

Underline the correct answer.

[5]

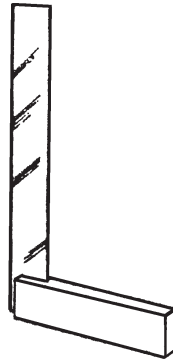
4. The correct tempering colour for lathe tools is **one** (1) of the following:

- (a) light straw;
- (b) dark straw;
- (c) purple;
- (d) dark blue.

Underline the correct answer.

[5]

5. The marking out tool shown below is used in the Design and Technology room.



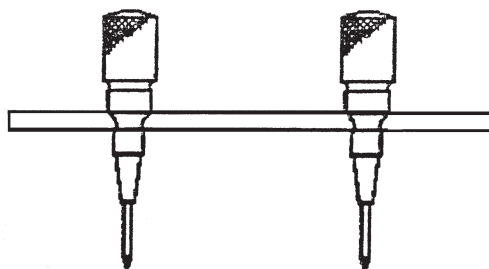
The tool shown is **one** (1) of the following:

- (a) an engineer's square;
- (b) a pair of dividers;
- (c) a depth gauge;
- (d) a scribing block.

Underline the correct answer.

[5]

6. The marking out tool shown below is used in the Design and Technology room.



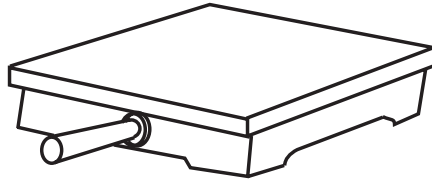
The tool shown is **one** (1) of the following:

- (a) a scriber;
- (b) an odd leg calipers;
- (c) a pair of trammels;
- (d) a centre punch.

Underline the correct answer.

[5]

7. The marking out equipment shown below is used in the Design and Technology room.



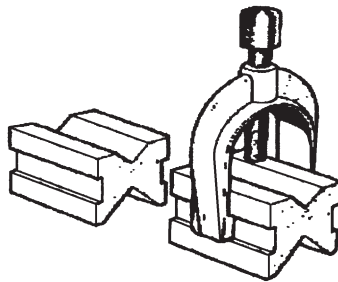
The marking out equipment shown is **one** (1) of the following:

- (a) a surface plate;
- (b) a surface gauge;
- (c) an engineer's square;
- (d) a centre square.

Underline the correct answer.

[5]

8. The marking out equipment shown below is used in the Design and Technology room.



The marking out equipment shown is **one** (1) of the following:

- (a) 'v' blocks;
- (b) 'w' blocks;
- (c) 'x' blocks;
- (d) 'y' blocks.

Underline the correct answer.

[5]

9. A drill bit is shown below.



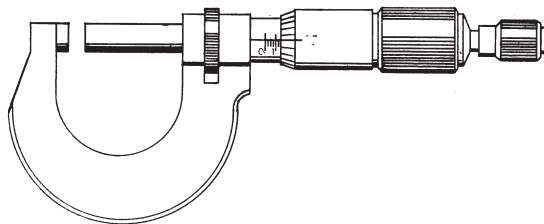
The drill bit is **one** (1) of the following:

- (a) centre bit;
- (b) twist bit;
- (c) flat bit;
- (d) countersink bit.

Underline the correct answer.

[5]

10. A tool is shown below.



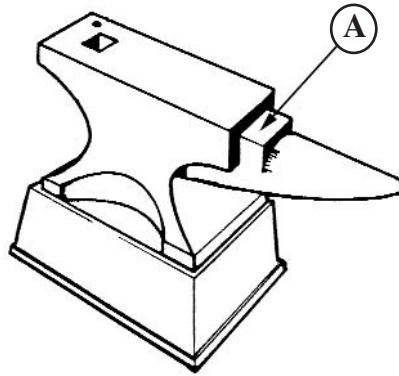
The tool shown is **one** (1) of the following:

- (a) a micrometer;
- (b) a vernier;
- (c) a measuring gauge;
- (d) a 'G' cramp.

Underline the correct answer.

[5]

11. The sketch below shows an anvil.



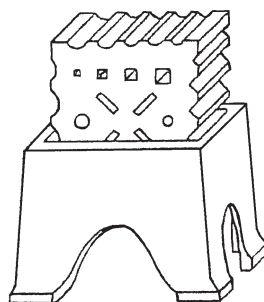
The arrow (A) is pointing to **one** (1) of the following:

- (a) Punching hole;
- (b) Hardie hole;
- (c) Beak;
- (d) Chopping block.

Underline the correct answer.

[5]

12. The item shown below is used in forgework.



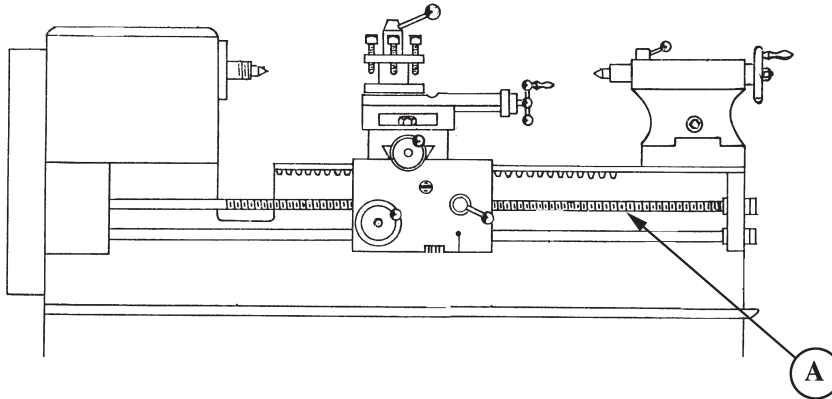
The item shown is **one** (1) of the following:

- (a) swage block;
- (b) fuller;
- (c) flatter;
- (d) cold set.

Underline the correct answer.

[5]

13. The sketch below shows a lathe.



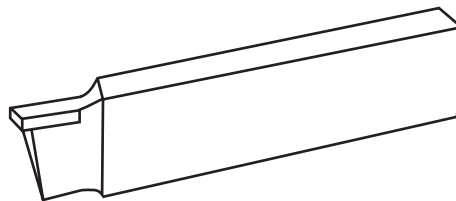
The arrow (A) is pointing to **one** (1) of the following:

- (a) head stock;
- (b) tail stock;
- (c) tool post;
- (d) lead screw.

Underline the correct answer.

[5]

14. A lathe tool is shown below.



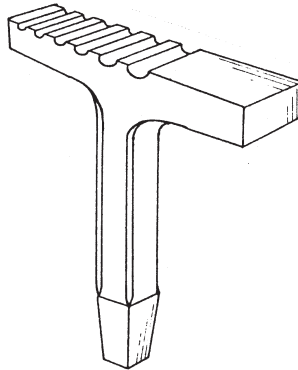
The lathe tool is **one** (1) of the following:

- (a) roughing tool;
- (b) parting off tool;
- (c) finishing tool;
- (d) knurling tool.

Underline the correct answer.

[5]

15. A piece of equipment used in beaten metalwork is shown below.



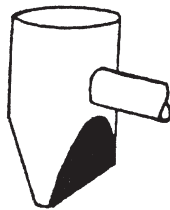
The piece of equipment shown is **one** (1) of the following:

- (a) a bick iron;
- (b) a funnel stake;
- (c) a creasing iron;
- (d) a hatchet stake.

Underline the correct answer.

[5]

16. A tool used in beaten metalwork is shown below.



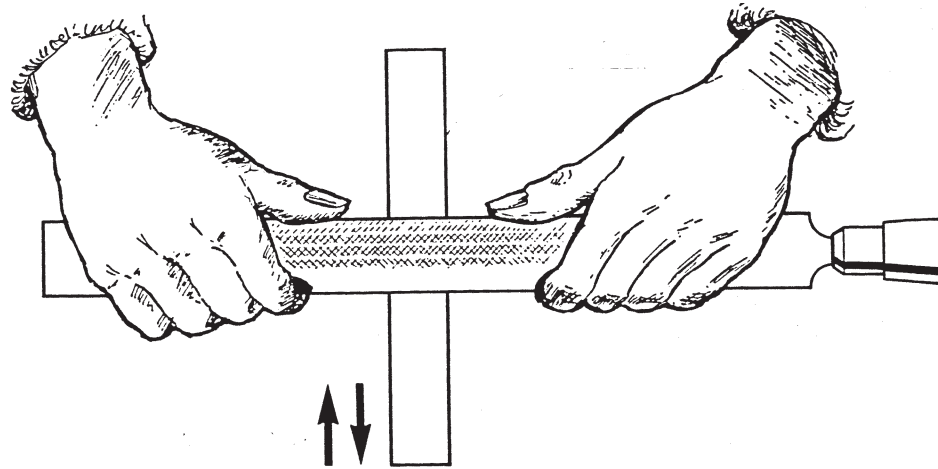
The tool used is **one** (1) of the following:

- (a) a raising hammer;
- (b) a bossing mallet;
- (c) a raising mallet;
- (d) a plannishing hammer.

Underline the correct answer.

[5]

17. The sketch below shows the edge of a piece of metal being cleaned up.



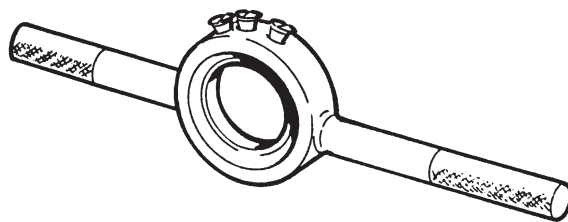
The cleaning up process above is **one** (1) of the following:

- (a) cross filing;
- (b) draw filing;
- (c) flat filing;
- (d) finish filing.

Underline the correct answer.

[5]

18. A tool is shown below.



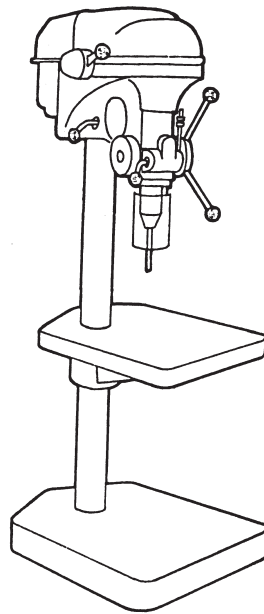
The tool shown is **one** (1) of the following:

- (a) a die stock holder;
- (b) a tap wrench;
- (c) a taper tap;
- (d) a split die.

Underline the correct answer.

[5]

19. The machine shown below is used in the Design and Technology room.



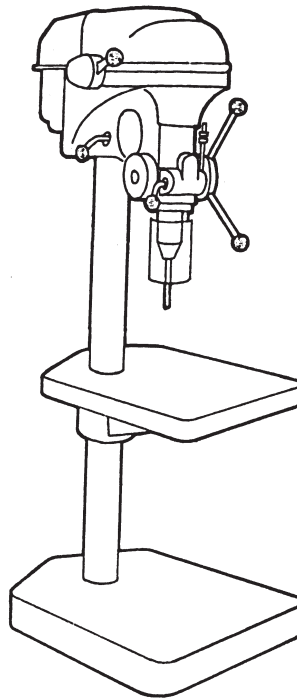
The machine shown is **one** (1) of the following:

- (a) a pedestal drill;
- (b) a vertical milling machine;
- (c) a horizontal milling machine;
- (d) a buffing machine.

Underline the correct answer.

[5]

20. A machine is shown below.



On the lines below, **write** down **five** (5) safety rules you should take when using the machine. [5]

- (i)
- (ii)
- (iii)
- (iv)
- (v)