

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, 15 March 2007

(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

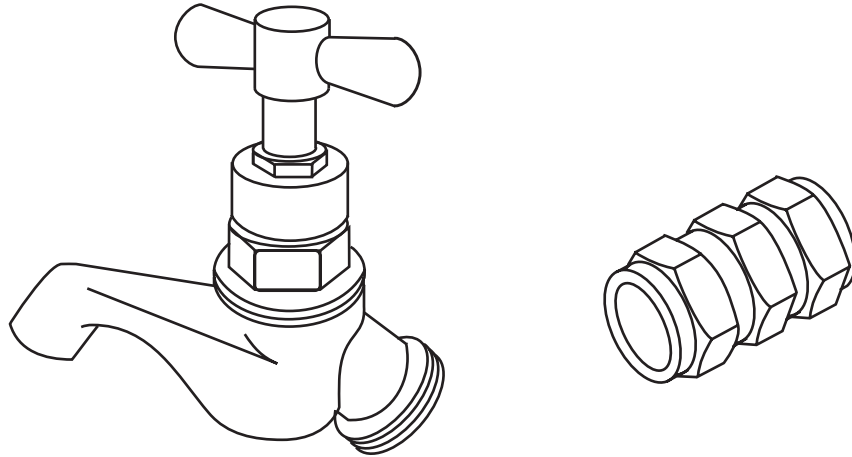
Each question carries **five** marks.

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. The plumbing fittings shown below are made from a non ferrous alloy.



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

- (a) Brass;
- (b) Lead;
- (c) Aluminium;
- (d) Copper.

Underline the correct answer.

[5]

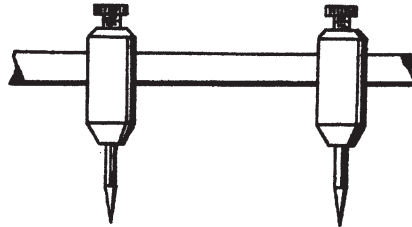
2. Cast iron is a brittle iron.
This means it can:

- (a) crack easily;
- (b) be sawn easily;
- (c) scratch easily;
- (d) return to its original shape after bending.

Underline the correct answer.

[5]

3. Trammels are shown below.



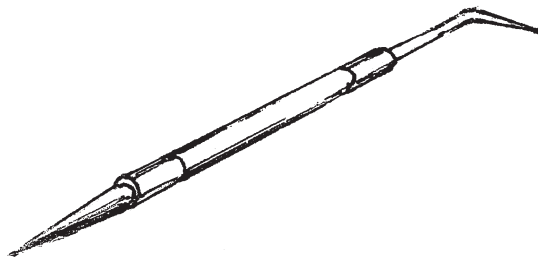
They are used for:

- (a) measuring the inside diameter of a tube;
- (b) marking out large arcs and circles;
- (c) measuring the outside diameter of a tube;
- (d) drawing lines parallel to an edge.

Underline the correct answer.

[5]

4. The tool shown below is a scribe. The correct tempering colour for the scribe 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.



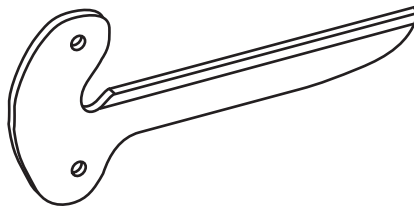
The tool shown is **one** (1) of the following:

- (a) scriber;
- (b) centre punch;
- (c) odd leg callipers;
- (d) dot punch.

Underline the correct answer.

[5]

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



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

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

Underline the correct answer.

[5]

7. A thread cutting tool is shown below.



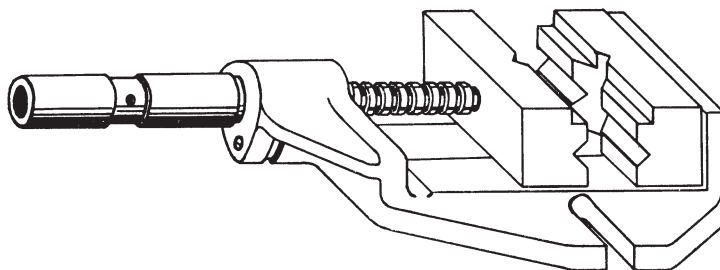
The tool shown is **one** (1) of the following:

- (a) Tap;
- (b) Bolt;
- (c) Die;
- (d) Screw.

Underline the correct answer.

[5]

8. The tool shown below is used in the Design Technology room.



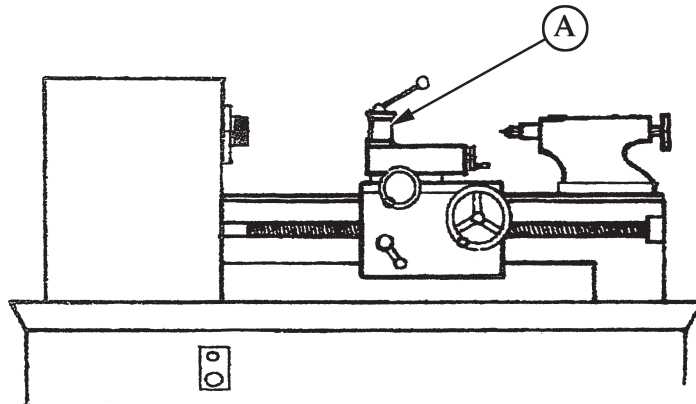
The tool shown is **one** (1) of the following:

- (a) Lancashire pattern hand vice;
- (b) Hand vice;
- (c) Leg vice;
- (d) Machine vice.

Underline the correct answer.

[5]

9. The centre lathe shown below is used in the Design Technology room.



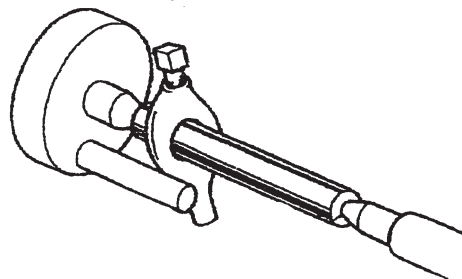
The arrow (A) is pointing to **one** (1) of the following:

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

Underline the correct answer.

[5]

10. The sketch below shows a piece of lathe equipment.



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

- (a) turning between centres;
- (b) parting-off;
- (c) facing-off;
- (d) centre drilling.

Underline the correct answer.

[5]

11. The tool shown below is used to make holes in metal in the Design Technology room.



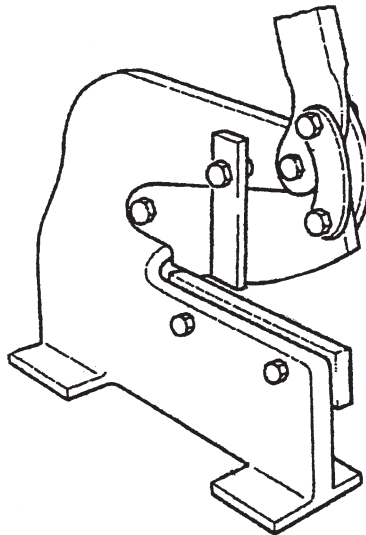
The tool shown is **one** (1) of the following:

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

Underline the correct answer.

[5]

12. The tool shown below is used in the Design and Technology room.



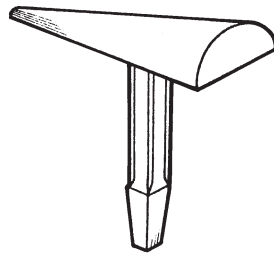
The tool shown is **one** (1) of the following:

- (a) tin snips;
- (b) guillotine;
- (c) pliers;
- (d) pincers.

Underline the correct answer.

[5]

13. The equipment shown below is used in beaten metalwork.



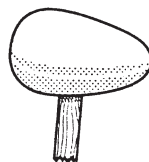
The piece of equipment is **one** (1) of the following:

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

Underline the correct answer.

[5]

14. The tool shown below is used in beaten metalwork.



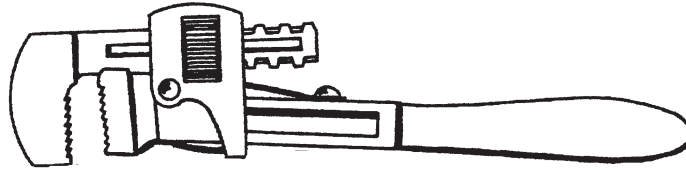
The tool shown is **one** (1) of the following:

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

Underline the correct answer.

[5]

15. The tool shown below is used in the Design Technology room.



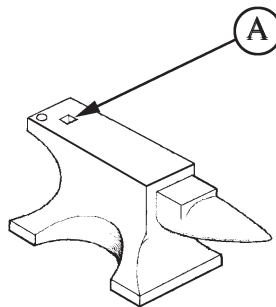
The tool shown is **one** (1) of the following:

- (a) ring spanner;
- (b) open end spanner;
- (c) stillson wrench;
- (d) adjustable wrench.

Underline the correct answer.

[5]

16. The anvil shown below is used in the Design Technology room.



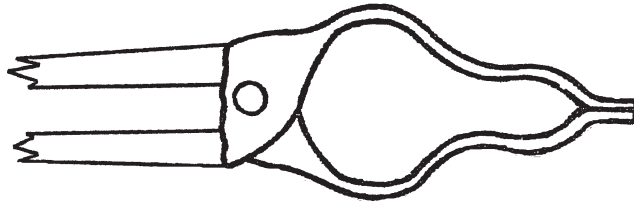
The arrow (A) is pointing to **one** (1) of the following:

- (a) the beak;
- (b) the Hardie hole;
- (c) the cutting plate;
- (d) the punching hole.

Underline the correct answer.

[5]

17. The pair of tongs shown below is used in forge work.



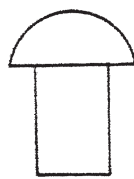
The tongs shown is **one** (1) of the following:

- (a) Hollow bit;
- (b) Round;
- (c) Flat mouth;
- (d) Pick up.

Underline the correct answer.

[5]

18. The rivet shown below is used to join metals.



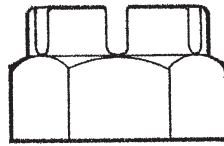
The rivet shown is **one** (1) of the following:

- (a) raised head;
- (b) cheese head;
- (c) mushroom head;
- (d) snap head or round head.

Underline the correct answer.

[5]

19. The nut shown below is used to join metals.



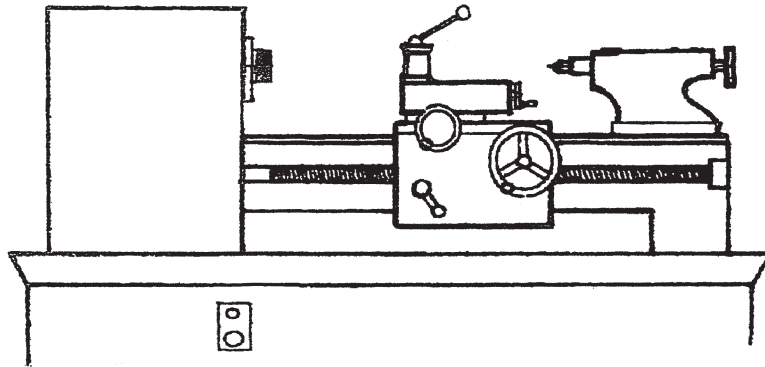
The nut shown is **one** (1) of the following:

- (a) Castle nut;
- (b) Locking nut;
- (c) Wing nut;
- (d) Hexagonal nut.

Underline the correct answer.

[5]

20. A centre lathe is shown below.



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

(i)

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(ii)

.....

(iii)

.....

(iv)

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(v)

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