

Candidate Name	Centre Number	Candidate Number
		4



## Entry Level

725/03

## GRAPHICAL AND MATERIAL STUDIES (Metalcraft)

P.M. THURSDAY, 13 March 2008

$\frac{1}{2}$  Hour

**Examiner only**

<b>Total Marks</b>	
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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.

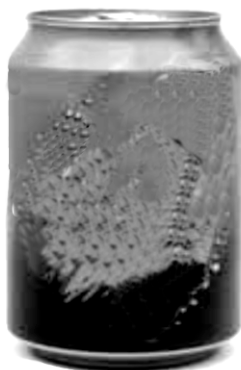
### INFORMATION FOR CANDIDATES

**Each** question carries **five** marks.

Answer **all** questions.

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

1. The drinks can shown below is made from a non ferrous metal which can be re-cycled.



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

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

**Underline** the correct answer.

[5]

2. Some metals are ductile. This means they 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. The tool shown below is a cold chisel.



The correct tempering colour for this chisel is **one** (1) of the following:

- (a) Light straw;
- (b) Dark straw;
- (c) Purple;
- (d) Dark blue.

**Underline** the correct answer.

[5]

4. 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]

5. The equipment shown below is used in the Design and Technology room.



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

- (a) Surface plate;
- (b) Surface gauge;
- (c) Centre square;
- (d) Engineers square.

**Underline** the correct answer.

[5]

6. The equipment shown below is used for marking out metals in the Design and Technology room.



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

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

**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) Tap holder;
- (c) Die;
- (d) Die holder.

**Underline** the correct answer.

[5]

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



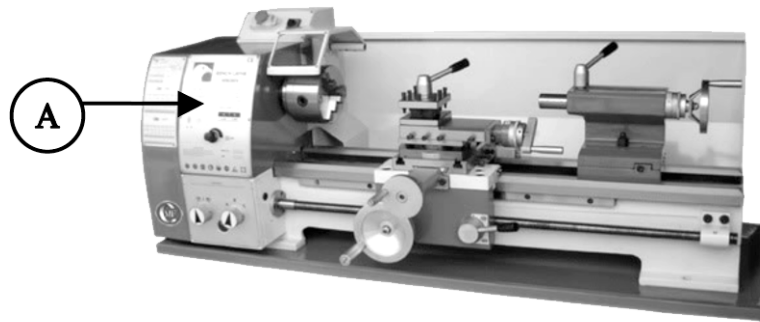
The equipment shown is **one** (1) of the following:

- (a) Engineers 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 and 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 **one** (1) of the following:

- (a) 3 jaw chuck;
- (b) 4 jaw chuck;
- (c) Catch plate;
- (d) Live centre.

**Underline** the correct answer.

[5]

11. The drills shown below are used in the Design and Technology room.



The drills shown are **one** (1) of the following:

- (a) Centre drill;
- (b) Twist bit;
- (c) Countersunk bit;
- (d) Flat bit.

**Underline** the correct answer.

[5]

12. This question is about producing a special finish on turned metal.



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

- (a) Roughing tool;
- (b) Finishing tool;
- (c) Knurling tool;
- (d) Parting off tool.

**Underline** the correct answer.

[5]

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



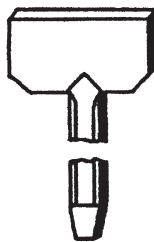
The tool is **one** (1) of the following:

- (a) Tin snips;
- (b) Guillotine;
- (c) Pliers;
- (d) Pincers.

**Underline** the correct answer.

[5]

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



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

- (a) Funnel stake;
- (b) Creasing iron;
- (c) Hatchet stake;
- (d) Round bottom stake.

**Underline** the correct answer.

[5]



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



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

- (a) Raising hammer;
- (b) Bossing mallet;
- (c) Planishing hammer;
- (d) Cross pein hammer.

**Underline** the correct answer.

[5]

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



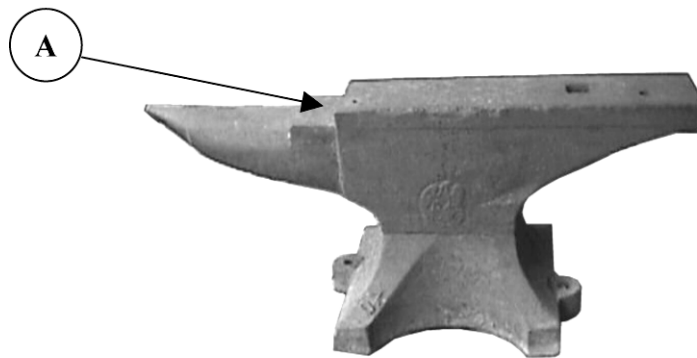
The tool shown is **one** (1) of the following:

- (a) Ring spanner;
- (b) Open end spanner;
- (c) Stillson wrench;
- (d) Adjustable wrench.

**Underline** the correct answer.

[5]

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



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

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

**Underline** the correct answer.

[5]

18. The pair of tongs shown below are used for forge work.



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

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

**Underline** the correct answer.

[5]

19. 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.

**Underline** the correct answer.

[5]

20. The photograph shows a machine used in the Design and Technology room.



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

(i) .....

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(ii) .....

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(iii) .....

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(iv) .....

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(v) .....

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