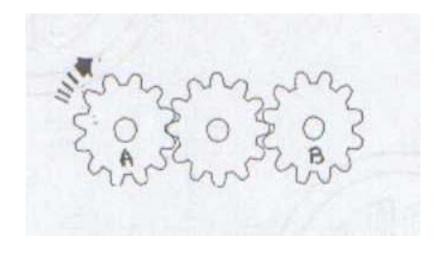
## SECONDARY SCHOOL ANNUAL EXAMINATIONS 2004 Educational Assessment Unit – Education Division

FOF	RM 5	TECHNOLO	DGY EDUCATION	Time: 2 hours		
Nam	e:			Class:		
Ans	wer all questic	ons				
	•					
1.	Write the follo	owing stages of the	design process in order.			
	Making - Evaluation – Situation - Brief - Planning - Investigation.					
	1		2.			
	3.		4.			
	5.		6.			
				6 Marks		
				4 Marks		
3.	Classify these four types of wood either as <b>natural</b> or <b>manufactured</b>					
	Chipboard – Red deal – Fibreboard – Mahogany.					
	NATURAL:	(a)	(b)			
		IIDED, (a)				
	MANUFACI	UKED. (a)	(b)			

4.	Name three methods			
	(a)			
	(b)			
	(c)			
				3 Marks
5.	Name three method	ls of joining wood.		
	(a)			
	(b)			
	(c)			
				3 Marks
6.		into FERROUS or NON per and cast iron are all		fy them in the
6.		into FERROUS or NON per and cast iron are all (a)	types of metals. Classi	
6.	Mild steel, brass, cop table below. FERROUS:	per and cast iron are all (a)	types of metals. Classi	
<ul><li>6.</li><li>7.</li></ul>	Mild steel, brass, cop table below. FERROUS: NON-FERROUS: Structures are classifi into their proper grou	per and cast iron are all (a)(a) (a) Ted into SOLID, FRAMP p.	types of metals. Classi (b) (b) E or SHELL. Classify t	8 Marks
	Mild steel, brass, cop table below. FERROUS: NON-FERROUS: Structures are classifi into their proper grou	per and cast iron are all (a)(a)	types of metals. Classi (b) (b) E or SHELL. Classify t	8 Marks
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	Mild steel, brass, cop table below. FERROUS: NON-FERROUS: Structures are classifi into their proper grou <b>Box – crane – coin –</b>	per and cast iron are all (a)(a) (a) Ted into SOLID, FRAMP p.	types of metals. Classi (b) (b) E or SHELL. Classify t	8 Marks

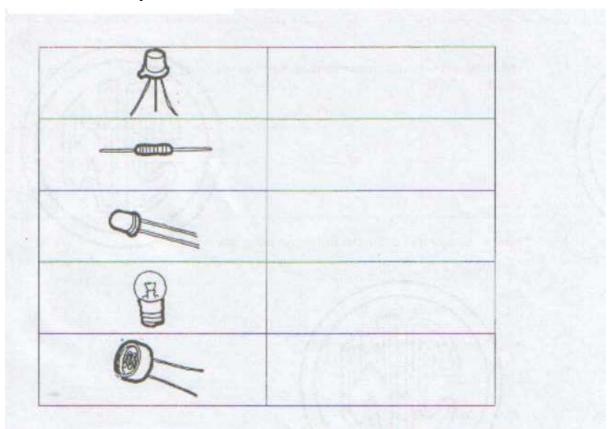
## 6 Marks

8. Indicate with an arrow the direction in which gear marked **B** will turn when gear marked **A** is turning clockwise.



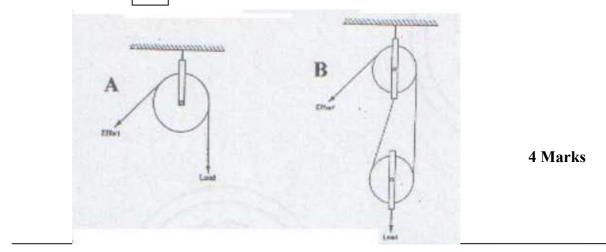
2 Marks

9. Name the components shown:



## 10 Marks

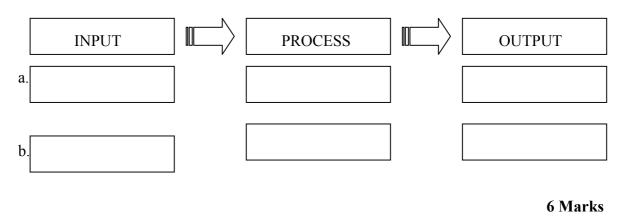
10. Mark with a shift which of these two loads require the least effort to lift.



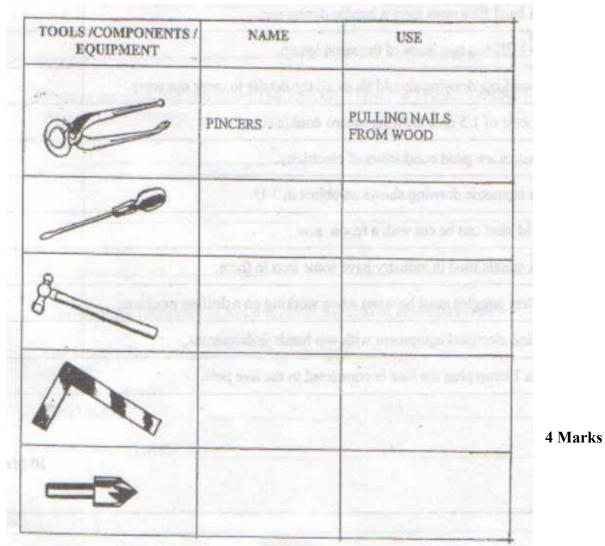
- 11. State two safety precautions that must be observed when using an arc welding set.
  - 1) \_\_\_\_\_\_ 2) \_\_\_\_\_\_ 2 Marks
- **12.** State two safety precautions that must be observed when using a woodworker's chisel.
  - (1) \_\_\_\_\_ (2) \_\_\_\_\_

2 Marks

- 14. Place each of the following words under the correct heading of this block diagram:a. Catch moves, padlock opens, key turned.
  - **b.** Light on, press switch, switch contact changes.



- **15.** Complete the table by :
  - 1. Naming each tool.
  - 2.Describe its use.



**16.** Write whether each of the following statements is true or false.

		True or False
1	The earth wire in a 3-pin plug is yellow and green in colour.	
2	An LED needs a resistor to protect it from burning out.	
3	An orbital sander is used to rough up surfaces of wood.	
4	A resistor allows current to flow easily.	
5	Aluminium is an alloy of tin and lead.	
6	In a 'Parallel' circuit, all the bulbs go off when a bulb is removed.	
7	Pure metals are combined to form alloys to improve their properties.	
8	Mild steel can be filed down with a rasp.	
9	The Voltage in a 'Series' circuit is divided between the bulbs.	
10	All hand files must have a handle during use.	
11	An LED has two leads of the same length.	
12	A working drawing should show all the details to carry out work.	
13	A scale of 1:5 on a drawing means double size.	
14	Plastics are good conductors of electricity.	
15	An Isometric drawing shows an object in 3-D.	
16	Mild steel can be cut with a tenon saw.	
17	All metals used in industry have some iron in them.	
18	Safety goggles must be worn when working on a drilling machine.	
19	Using electrical equipment with wet hands is dangerous.	
20	In a 13amp plug the fuse is connected to the live pole.	

## 20 Marks