

SECONDARY SCHOOL ANNUAL EXAMINATIONS 2003

Educational Assessment Unit – Education Division

| | | |
|---------------|-----------------------------|----------------------|
| FORM 1 | TECHNOLOGY EDUCATION | Time: 2 hours |
|---------------|-----------------------------|----------------------|

Name: _____

Class: _____

| | |
|-------------------|--|
| SECTION A: | Answer all questions in this section. |
|-------------------|--|

1. Measure the following lines. Give your answer in centimetres and in millimetres.

e.g. _____ 4.1 cm 41 mm

(a) _____ _____ cm _____ mm

(b) _____ _____ cm _____ mm

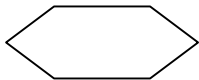

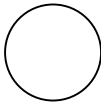
(c) _____ _____ cm _____ mm

(d) _____ _____ cm _____ mm

(e) _____ _____ cm _____ mm

_____ **10 marks**

2. Look at the following shapes carefully and fill in the table.

| SHAPE | Name of shape | Number of straight sides | Number of curved sides | Number of right angles |
|---|---------------|--------------------------|------------------------|------------------------|
|  | | | | |
|  | | | | |
|  | | | | |

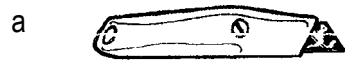
_____ **12 marks**

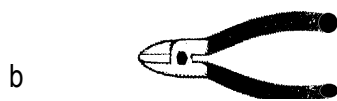
3. Give three types of information that a working drawing can include.

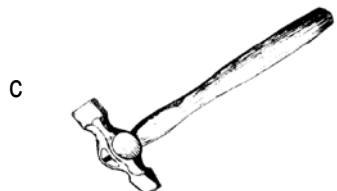
1. _____ 2. _____
3. _____

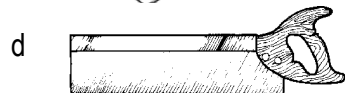
6 marks

4. Give the name of each tool shown below.











10 marks


5. Give four safety precautions that must be observed in a technology education workshop.

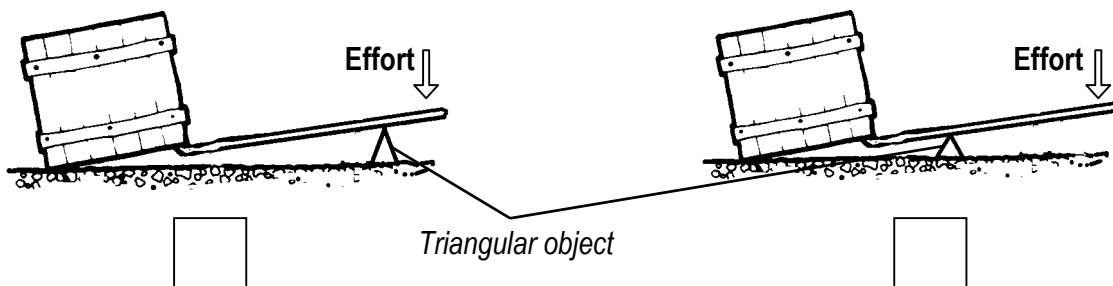
1. _____
2. _____
3. _____
4. _____

8 marks

End of section A. From now on answer only 9 questions from the next pages.

SECTION B:**Answer only 9 questions from this section.**

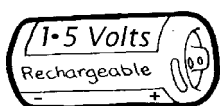
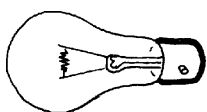
- 1 (a) Mark with a  which of these two loads is easier to lift.

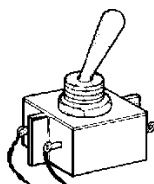


- 1 (b) What does the triangular object in the above diagrams represent ?

6 marks

2. Give the name and the symbol of each component shown in the following pictures.





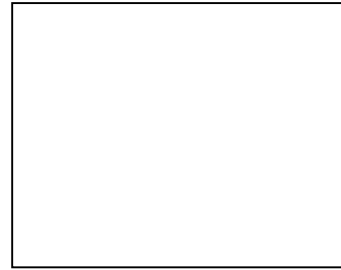
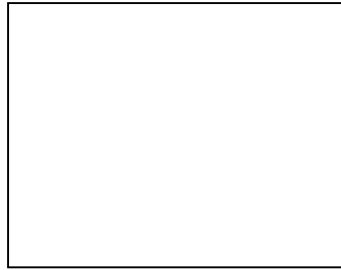
6 marks

3. Underline the materials that allow electricity to flow through them (conductors).

COPPER - WOOD - GLASS - CARDBOARD - COTTON - IRON - BRASS - RUBBER

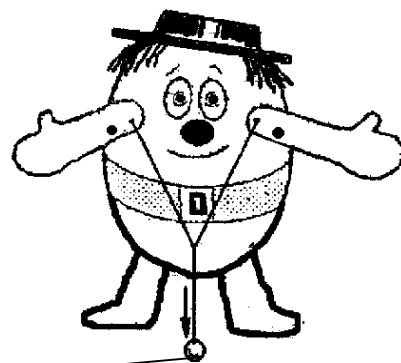
6 marks

4. In the space provided draw two shapes of cams that can be used for an up and down movement in a project.



6 marks

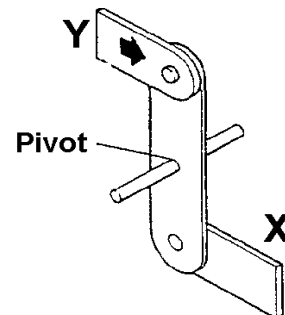
5. The picture shows a mechanical toy.
- If the string is pulled down, in which direction will each hand move?
- Indicate the movement of each hand by drawing arrows.



STRING

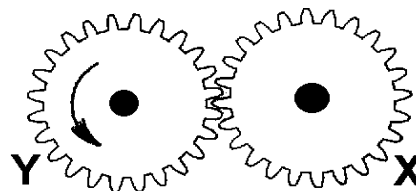
6 marks

6. If lever **Y** is pushed as shown, in which direction will lever **X** move?
- Indicate the direction with an arrow.



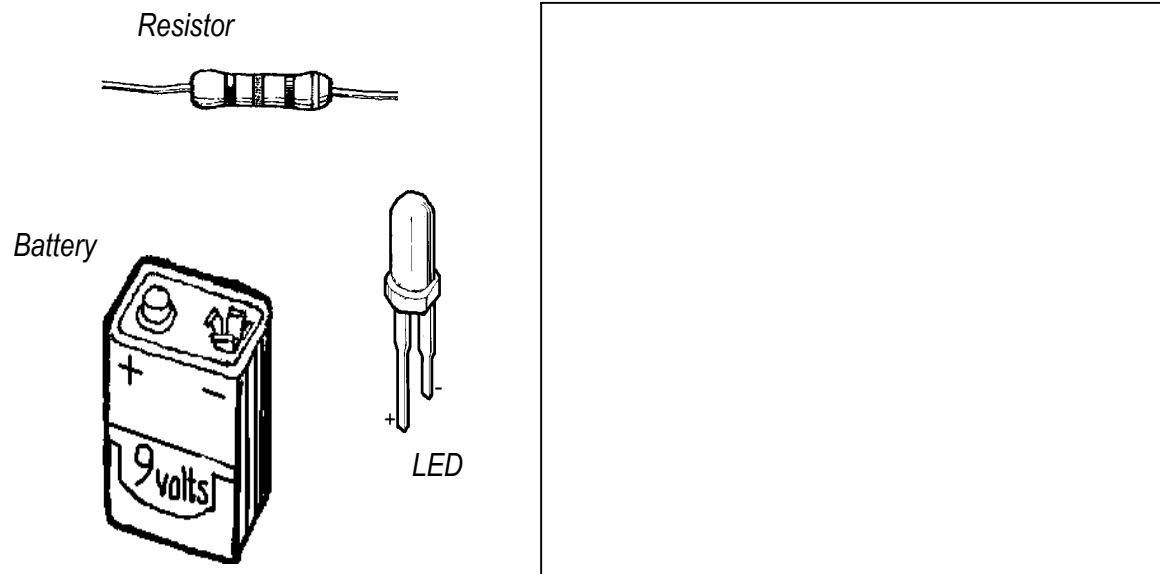
6 marks

7. If gear wheel **Y** is turned as shown, in which direction will gear wheel **X** turn?
- Indicate the direction with an arrow.



6 marks

8. Draw a circuit diagram to show how these components should be connected together so that the LED lights up.



6 marks

9. Match the meaning for each packaging symbol shown below.

(a) Handle with care



(b) Recyclable

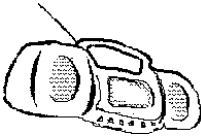

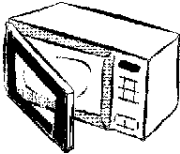


(c) Protect from water or moisture



6 marks

10. Give the output of each product shown below.

| PRODUCT | INPUT | OUTPUT |
|---|-------------|--------|
|  Radio | Electricity | |
|  Television | Electricity | |
|  Microwave oven | Electricity | |

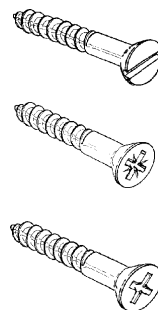
6 marks

11. Match each type of screw slot to its proper name.

(a) Straight

(b) Phillips

(c) Pozidriv

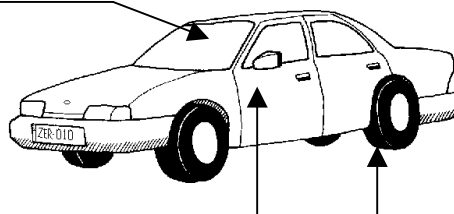


6 marks

12. Give a suitable material for each part shown in the picture below.

(windscreen)

(body)



(tyre)

6 marks