<table>
<thead>
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<th>Form 1</th>
<th>Design &amp; Technology</th>
<th>Time: 90Mins.</th>
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Name: ___________________________ Class: ________________

Answer all questions.

1) Write down these five Design stages in their proper places.

Planning – Brief – Evaluation - Chosen Idea - Making

1. Situation
2. __________
3. Investigation
4. First Ideas
5. __________
6. Development
7. __________
8. __________
9. Testing
10. __________

5 Marks

2) Mention THREE sources where you can collect pictures and information for your project.

a) __________________ b) __________________ c) __________________

3 Marks

3) Name three Safety Rules that must be observed when working in a Design and Technology Workshop.

a) __________________________________________________________

b) __________________________________________________________

c) __________________________________________________________

6 Marks
4) Complete the following:

This is a ___v Battery. It can be used to work with _______________________
It has a _______________ terminal and a _______________ terminal.

This is a ___v Battery. It can be used to work with _______________________

This is a ___v Battery. It can be used to work with _______________________. Place the " +" and " – " signs on the picture of the battery.

10 Marks

5) DC means ______________________and is used in ______________________
AC means __________________________and is used in ___________________

4 Marks

6) Mention two electronic components used as Input Devices
   a) ___________________  b) _________________
Mention two electronic components used as Output Devices
   a)____________________ b) _________________

4 Marks

7) What do we mean by the following? Give an example.
   a) An **insulator** of electricity:

   _______________________________________
   b) A **conductor** of electricity:

   _______________________________________

2 Marks
8) Draw an **electronic circuit** diagram having a 9v battery, rocker switch and a 9v bulb.

![Diagram](image)

6 Marks

9) Woods are classified into two main groups. Name them.
   
a) ____________________________  b) ____________________________

Give two examples of each ___________________ ___________________  ___________________ ___________________

6 Marks

10) Natural woods are classified into two main groups. Name them.
   
a) ____________________________  b) ____________________________

Give one example of each ___________________ ___________________

4 Marks

11) Complete the following:
   
a) What is the right tool to use to mark on wood? ___________________
   
   b) What is the name of the tool used to draw lines at 90 degree? ___________________
   
   c) What is the name of the tool used to cut a small piece of wood? ___________________
   
   d) How can two pieces of wood be joined together? ___________________
   
   e) Sanding and finishing wood is important. What do we use for sanding? ______________
   
   f) Mention two types of finishes one can use on wood.
      
i) ___________________
   
      ii) ___________________
12) **List in order** the following steps which are necessary in a cutting activity.

Secure the work, understanding working drawing, finishing, cutting, marking out,

a) ____________________
b) ____________________
c) ____________________
d) ____________________
e) ____________________

5 Marks

13) Plastics are divided into two main groups. Name them.

a) ______________________________  b) ______________________________

Give an example of each _______________________    ___________________

4 Marks

14) Which types of plastics can be reshaped? ______________________  2Marks

15) Mention two different objects made from plastic for each of the two categories.

a) ___________________________  b) ______________________________

**Thermoplastics**

a) ___________________________  b) ______________________________

**Thermosetting**

8 Marks
16) Complete the following:

a) What are the right tools to use to mark on plastic?
   ________________ ________________

b) What is the name of the tool used to draw lines at 90 degree? ________________

c) Plastics can be cut using a? ________________

d) How can two pieces of plastics be joined together? __________________________

e) What could be used to clean plastics after being cut? __________

f) Mention one type of finish one can use on plastic. __________________________
   ________________________________________________________________________ 7 Marks

17) Draw and name three tools used in the Design and Technology Workshop.

 ____________________________________________________________________________ 10 Marks
18) In the space provided below write down:

<table>
<thead>
<tr>
<th>Do you like Design &amp; Technology and why?</th>
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<tr>
<th>What do you find difficult in Design &amp; Technology</th>
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7 Marks