

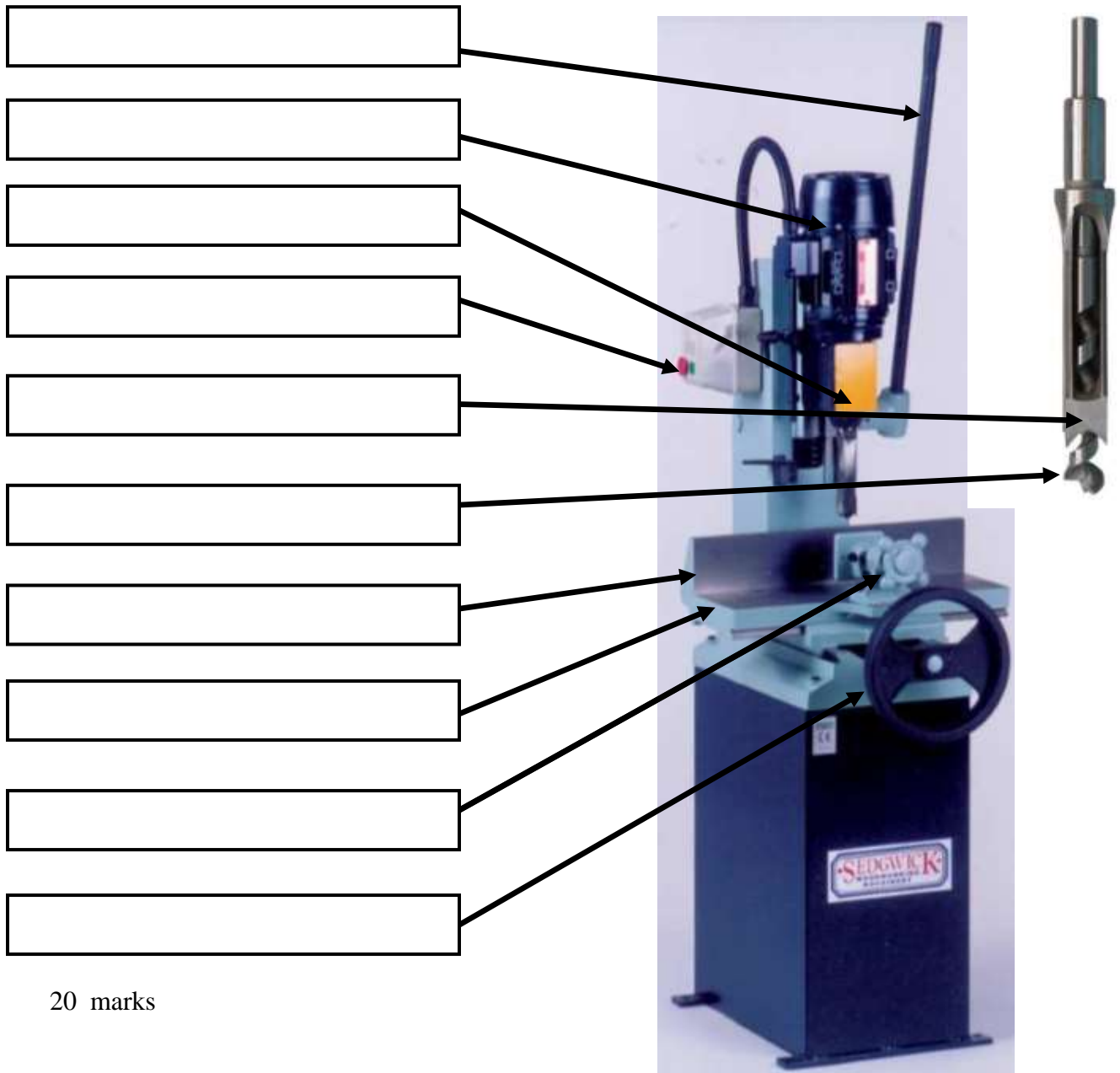
# Mortiser Theory Test

Name of Student	
Class	
Grade	

**NOTE: Students must achieve 80% or higher to pass the test**

1. Label the parts of the Mortiser from the following list:

**(Chuck Guard, Hand Adjuster Wheel, Chisel Bit, Operating Handle, Start/Stop Switch, Table, Clamp, Fence, Motor, Auger bit,)**



2. What is the **most important** piece of Personal Protective Equipment (PPE) that must be worn at all times when using the Mortise Machine?

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10 marks

3. Outline three safety measures that must be undertaken before operation of Mortise Machine?

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15 marks

4. How do you adjust the table and fence platform from side to side?

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10 marks

5. When setting up the mortise bit why does the auger bit need to project below the chisel bit?

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13 marks

**NOTE:** The following questions are all multiple choice. Please place a tick/mark in the box beside the answer you feel is the **most suitable**.

6. Why is it important that the mortise chisel is parallel to the fence?

- ☐ A: So the chisel doesn't come loose
- ☐ B: So the finished mortise is parallel to the edge of the material
- ☐ C: Stops the wood splitting during process
- ☐ D: All of the above

8 marks

7. What is the depth stop used for on the mortise machine?

- ☐ A: To keep the auger cool during the mortising process
- ☐ B: To set the required depth you want to mortise down in the material
- ☐ C: To stop the vibration of the machine during the mortising process
- ☐ D: To stop the table and fence moving during the mortising

8 marks

8. When the mortise machine is in operation it is important to:

- ☐ A: Maintain full concentration and act safely
- ☐ B: Keep your friends updated on how the machine is running
- ☐ C: Start putting on your Personal Protective Equipment (PPE)
- ☐ D: Adjust the table height

8 marks

9. When setting up the workpiece it is important to:

- ☐ A: Turn the mortiser on
- ☐ B: Always clamp to the table
- ☐ C: Tighten with chuck key
- ☐ D: All of the above

8 marks

**Date Test Completed:**

**Student Signature:**

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**TO BE COMPLETED BY THE TEACHER**

**Student:**

**Pass**

**Fail**

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**Teacher Signature:**

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**Date:**