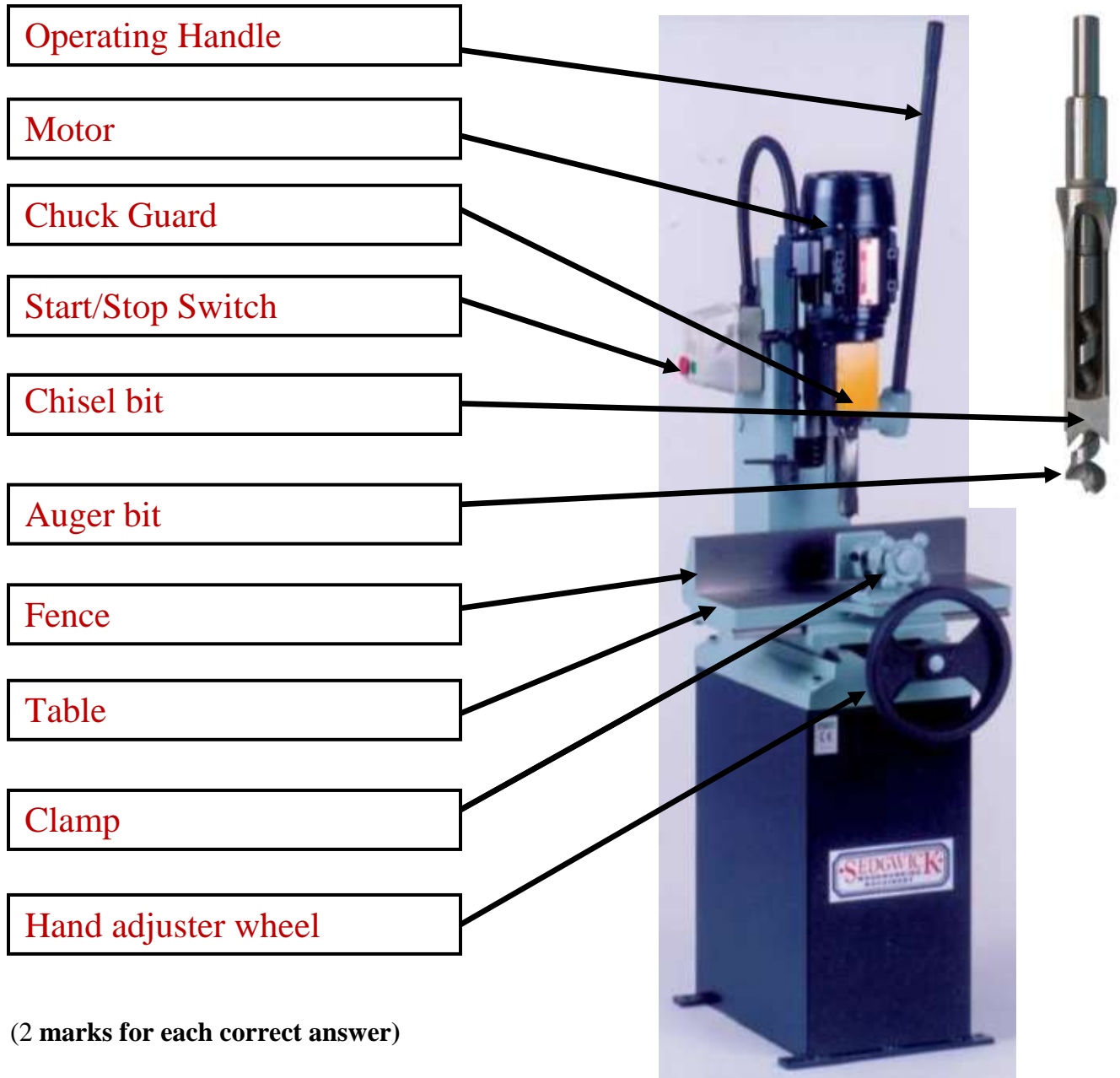


# Chisel Mortiser Theory Test

## Marking Scheme

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 marks for each correct answer)

20 marks

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

- Safety glasses

10 marks

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

- Put on Safety Goggles.
- Take off any jewellery.
- Tie up loose clothing and long hair.
- Roll up sleeves.
- Clamp the workpiece to the table

(5 marks for each correct answer)

15 marks

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

- Use the hand adjuster wheel

10 marks

5. When setting up the mortise bit why is it important that auger bit is set lower than the chisel bit?

- This allows the auger bit to absorb the excess wood chippings up the hollow chisel bit and release them through the chip ejection port.

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