Manchester School Board.

SECOND YEAR MANUAL TRAINING TEST CARD

FOR

THEORY.

Only five of the Questions are to be answered.

- 1. Write down all you know about the Hand Saw and Back Saw.
- 2. Describe as fully as you can how you made Model 2—the Desk Tray—from the rough wood.
- 3. Why is a Hammer Shaft made of Ash, and why is it made smaller near the head? How is the head fixed on?
- 4. Make neat sketches of the Tools marked A, B, C, D, and name them.
- 5. What kind of a joint is used for the frame of a school slate, and how would you mark out a similar joint on a planed up piece of wood 1½ in. wide x 1 in. thick?
- 6. What is the chief difference between a Mortise chisel and a Firmer chisel (bevel edge), and why are they made as they are?
- 7. In what position should you stand and where should each hand be placed when boring holes with a brace and bit?

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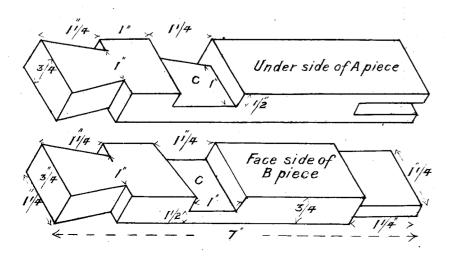
SECOND YEAR MANUAL TRAINING TEST CARD

FOR

DRAWING AND PRACTICAL WORK.

INSTRUCTIONS.

- 1. The sketch given is a model taken to pieces; it shows two of the joints you have just made. I want you to make an Isometric drawing shewing the joints as a Dovetail cross joint properly projected one from the other.
- 2. From the piece of wood supplied saw off two pieces 13 in. wide; plane these up to 11 in. full x 3 in. full; then mark off, and make the several saw and chisel cuts shown, fitting together the pieces at joint C.



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MANUAL INSTRUCTION FIRST YEAR THEORY TEST CARD

Note .- You are to work only four of the Questions

- 1. A Tenon Saw is also called a Back Saw. Why is this, and how is the blade fixed to the handle?
- 2. How would you test the accuracy of your planing? What have you to be most careful about when preparing the wood for a joint?
- 3. Name all the Tools (in their proper order of use) required for making Model 3.
- 4. The Spur of a Marking Guage is made of round steel, of what kind of materials are the other parts made? Name each part and tell me how you would hold the Guage when setting it to dimensions, and how when using it for marking?
- 5. That part of a plane which makes shavings is called the Plane Iron. Would it be of any use if it were really made of iron? If not, why not? What is the cover iron for?
- 6. Why is the stock of a Trysquare faced with brass?

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MANUAL INSTRUCTION FIRST YEAR TEST CARD

FOR

DRAWING AND PRACTICAL WORK.

INSTRUCTIONS.

1. The sketch shows roughly the plan, elevation, and end view in one drawing. You are required to make correct drawings in Orthographic projection, giving four views, and inserting all the dimensions

