

Learner Instructions

General Instructions:

1. Read the following carefully and make sure you understand all instructions. If you need clarification, check with the Supervisor/Assessor before the test begins.
2. Write your Apprentice Name/Registration No. on all answer sheets and assessment sheets.
3. Check that you have all the necessary materials before the test begins.
4. You must complete this test without assistance. Learners assisting other learners or interfering with their work will be disqualified from the test.
5. All test papers remain the property of SOLAS and the Department of Education and Skills, and must be returned to the Supervisor/Assessor immediately on completion of the test.
6. Mobile phones and other communication devices are not allowed.

Specific Instructions:

1. You should answer all 30 questions.
2. All questions carry equal marks.
3. To achieve a **pass** on this paper requires 21 or more questions to be answered correctly.
4. To achieve a **credit** on this paper requires 26 or more questions to be answered correctly.

Time Allowed: 2 hours

Materials Required:

- T1 Question book/paper
- HB pencil/pen
- Calculator
- Eraser

Wood Manufacturing & Finishing

Phase 6

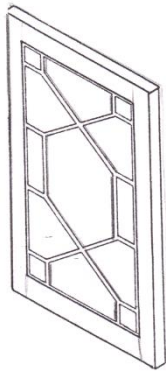
Sample Test Questions

Question 1. State the function of the hogging head on the round end tenoning machine.

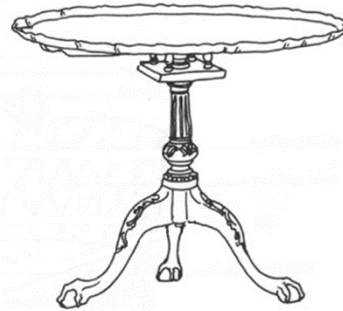
Question 2. Give **three** reasons why the round end tenon and slot mortice joint is most suited to the jointing of furniture framing.

Question 3. Describe **briefly** how to repair a solid tabletop with a very deep scratch using a diamond plug to repair the surface.

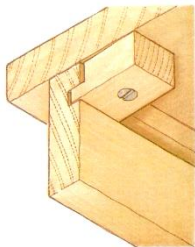
Question 4. Complete the name of the images below:



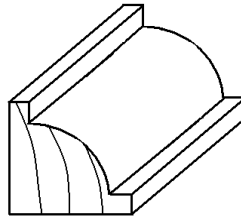
A. _____ Bar Door



B. _____ Tripod Table



C. _____ Fixing



D. _____ Moulding

Question 5. A superficial scratch in a French Polished surface is usually repaired using a reviver. Explain what a reviver is and how it works.

Question 6. Explain why surface finishes are applied to wood?

Question 7. Draw any **two** of the following fittings **and** give an example of where they are used:

(a) Box Lock

(b) Escutcheon

(c) Backflap Hinge

Question 8. Briefly describe any **three** of the following stair terms:

Pitch Line	
Strings	
Headroom	
Flight	

Question 9. State **five** of the Building Regulations as they apply to a private stairs.

Question 10. Select a suitable going to comply with the $2R + G$ formula of a private stairs with a total rise of 2340mm. An optimum rise of 180mm is supplied. **Show all calculations.**

Question 11. €22,000 was invested at compound interest for 3 years. The first year rate was 5%. The second year rate was 3%. The third year rate was 3.5%. • Calculate the final amount and the interest earned. **Show all calculations.**

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Question 15. Explain what is meant by the following Furniture Terms; Use sketches to support your answer.

An Apron rail:	
An Upstand:	
A Breakfront Top:	
A Tracery door:	

Question 16. Provide the Standard Sizes for the following in relation to Furniture:

Minimum depth of a wardrobe unit:	
Height of dining chair seat:	
Minimum distance between pillars on a writing desk:	
Writing desk height:	

Question 17. You have been asked to run some edging on the Edge-banding machine. List **four** examples of items that will have to be set-up/checked/calibrated prior to running it.

1	
2	
3	
4	

Question 18. What components can be incorporated onto the table of the CNC to prevent the cutter coming into contact with Table?

Question 19. List three advantages of using CAD/CAM software when generating C.N.C. programmes.

Question 20. State the functions of **both** the front chip breaker and the rear pressure shoe, situated on the top spindle of a 4-sided planer moulder, **and** list the heights with which each should be set in conjunction with the work piece.

Question 21. When machining curved components on a spindle moulder the operator will use either a guide bearing or a ring fence:

Briefly describe each system outlining the main differences between both.

Question 22. In relation to timber machining, explain what is meant by the following terms:

Deeping:
Flatting:
Peripheral speed:
Pitch marks:

Question 23. When machining soft timbers, describe why high-speed steel cutters are likely to produce a cleaner finish than tungsten carbide cutters?

Question 24. In relation to surface finishes:

a) Bichromate of potash is dissolved in water and applied to wood as a stain. Explain how chemical stains work?
b) What type of finish should be used on a bar top counter?
c) What does the term "raise the grain" mean?
d) When spraying lacquer, you sometimes get orange peel, what is orange peel and what causes it to occur?

Question 25. When operating a band re-saw, fluid is required to be applied at a constant rate.

State the function of this fluid.
List two methods by which the fluid may be applied.
Outline why diesel oil must never be used in a mist application system.

Question 26. Describe the **four** stages of the life cycle of the Death Watch Beetle.

Question 27. Describe Dry Rot **and** give an example of where you might find it.

Question 28. Name two methods of timber preservative treatment.

Question 29. There are various methods used to guard woodworking machines against accidental operator contact with moving parts.

List **four** different methods used **and** for each one, name a machine type on which it is used.

Question 30. In relation to the mounting of an abrasive wheel on a grinding machine, state:

Three safety precautions that must be observed before starting the machine:
