

Name _____

Wagga Wagga High School

2023 Year 10 Final Year Examination in Industrial Technology - Timber

Instructions to students:

- Read the questions carefully.
- Attempt all questions.
- Write your name on every page.

Section 1

1. Why is it important to wear safety goggles in the workshop?

2. What purpose does a "push stick" serve?

3. Why should we not use a metal hammer to hit chisels

4. What's the name of the machine used to make square holes in timber?

5. What do you call the piece of equipment used to hold timber steady on the workbench while sawing?

6. How can you find the centre of a piece of timber?

7. What is the purpose of a coping saw over a tenon saw?

8. What type of hammer is best suited for chisel work?

9. List three safety considerations when operating a jigsaw.

10. What can "dowel" be used for in woodworking?

11. What's the function of a "Sliding Bevel"?

12. Which is more abrasive, 60 grit or 100 grit sandpaper?

13. What is the downside to using too much wood glue?

14. Why should you sand your project between coats when applying finish?

15. Does a jigsaw cut on the upstroke or the downstroke?

16. How should a chisel be carried when moving around the room?

17. Why should you never use a chisel as a screwdriver?

18. Convert 110.5 cm to mm.

19. What is meant by the term "snug fit" when joining pieces of timber?

Section 2

1. What three factors affect the quality of a dovetail joint?

a. _____

- b. _____
- c. _____

2. How long should wood glue be allowed to set before removing clamps?

3. What are the three main dangers when using a bandsaw?

a.

b.

c.

7. What is the purpose of using a 'backing piece of scrap' when drilling?

8. Why is it important to use a dust mask when sanding certain types of wood?

9. Can you use water-based varnish over oil-based stain?

10. In relation to a clearance hole, why should screws holes be pre-drilled?

11. What is the primary function of a 'sash clamp' over a g-clamp'?

12. When using a machinery, what does the term 'kickback' mean?

13. How can you minimise tear-out when using a hand saw when starting your cut?

14. What's the general rule when choosing between nails and screws for a project?

15. Which is stronger: a dowel joint or a mortise and tenon joint? Why?

16. What is the difference between 'cross-cutting' and 'rip-cutting'?

17. What type of saw is generally used to cut plywood?

Practical Application

1. Identify three common types of wood joints.

- a. _____
- b. _____
- c. _____

2. With reference to interior or exterior use for a project, why is it important to select the correct type of?

3. What steps should you take before starting to cut a new piece of timber?

4. What safety gear is absolutely essential when using a lathe?

5. How would you correct a warped piece of timber?

Section 3: Advanced Concepts and Practical Knowledge

1. Explain the term 'seasoning' as it applies to timber.

2. What is 'veneer' and how is it commonly used?

3. Name two types of woodworking joints that are particularly strong for making frames.

- a. _____

b. _____

4. What is the primary purpose of using 'jigs' in woodworking?

5. Name two common types of wood finishes.

a. _____

b. _____

6. Why is it important to maintain sharp blades and bits in your woodworking tools?

7. How can you determine if a piece of wood has a high moisture content?

8. What are two signs that a power tool needs maintenance?

a. _____

b. _____

9. What is the difference between 'softwood' and 'hardwood'?

10. Why might you choose to use a plunge router instead of a fixed-base router for some projects?

11. Explain the term 'kerf' as it relates to woodworking.

12. Why should you always test a stain or finish on a scrap piece of wood first?

13. How can you minimise 'burn marks' when using a router?

14. What is a 'rebate' joint and where is it commonly used?

15. What should you do if you notice a strange smell or see smoke coming from a power tool while using it?
