

Carpentry (Canadian) 4th edition Vogt Test Bank

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Unit 1 — Wood and Lumber

1. What is the construction material most often used by carpenters?

- a. steel b. concrete
- c. wood d. fibreglass

ANSWER: c

2. Which one of the following groups of wood species best resists decay?

- a. cherry, mahogany, and walnut b. redwood, cedar, cypress, and teak
- c. oak and maple d. hickory and ash

ANSWER: b

3. Which of the following materials would you choose if insulating value were of critical importance?

- a. 1 inch (25 mm) of wood b. 8 inches (200 mm) of concrete
- c. 12 inches (300 mm) of brick d. 100 inches (2500 mm) of aluminum

ANSWER: c

4. What are the distinct rings formed by the growth of a tree called?

- a. annular rings b. pith rings
- c. bark rings d. medullary rings

ANSWER: a

5. Which characteristics best describe coniferous trees?

- a. leaf-bearing softwoods b. leaf-bearing hardwoods
- c. cone-bearing hardwoods d. cone-bearing softwoods

ANSWER: d

6. Which type of wood might you choose for the inside of a storage chest?

- a. ash b. red oak
- c. cherry d. cedar

ANSWER: d

7. Which of the following is known as the process of stacking lumber with cross sticks between the layers to allow air flow between the pieces?

- a. grading b. stickering
- c. spacing d. trimming

ANSWER: b

8. How long will the air-seasoning process of lumber likely take?

- a. six months to two years b. three to five years
- c. five to ten years d. ten to fifteen years

ANSWER: a

9. Which of the following is the method of cutting logs into lumber so that the annular rings are almost at right angles to the wide surface?

- a. plain-sawing b. slash-sawing
- c. quarter-sawing d. re-sawing

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ANSWER: c

10. What is another name for quarter-sawn lumber?
- a. slash-sawn lumber b. vertical grain lumber
 - c. re-sawn lumber d. plain-sawn lumber

ANSWER: b

11. In which season does the densest wood grow?
- a. spring b. summer
 - c. fall d. winter

ANSWER: b

12. Which characteristic of a tree's cross-section can be used to determine past weather patterns?
- a. width of growth rings b. color of growth rings
 - c. medullary rays d. pith

ANSWER: a

13. What is lumber called when it is first cut from the log, and contains a large amount of water?
- a. watery lumber b. new lumber
 - c. green lumber d. fresh lumber

ANSWER: c

14. What percentage of moisture content must wood have before it will start decaying?
- a. 15 percent b. 20 percent
 - c. 25 percent d. 29 percent

ANSWER: b

15. What is wood decay caused by?
- a. fungi b. birds
 - c. dry rot d. weather

ANSWER: a

16. What is the maximum moisture content of lumber used for framing?
- a. 19 percent b. 12 percent
 - c. 10 percent d. 29 percent

ANSWER: a

17. The water in the cell cavities is the first to be removed from the wood. What is this water called?
- a. green water b. overflow water
 - c. fresh water d. free water

ANSWER: d

18. At approximately what percentage of moisture content does wood reach its fibre-saturation point?
- a. 15 percent b. 19 percent
 - c. 25 percent d. 30 percent

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ANSWER: d

19. What happens to wood as it dries?

- a. it swells b. it shrinks
- c. it thickens d. it maintains its size

ANSWER: b

20. What point has lumber reached when it has dried to the moisture content of the surrounding air?

- a. equilibrium moisture content point b. fibre-saturation point
- c. dynamic seasoning point d. 19-percent moisture content point

ANSWER: a

21. Which of the following lumber drying processes is most expensive?

- a. air drying b. forced air drying
- c. kiln drying d. stacked drying

ANSWER: c

22. Under what circumstance is a 9 percent moisture content of lumber recommended to be used for exterior finish?

- a. when applied to the sunny side of the house
- b. in moist climates
- c. when applied to the shaded side of the house
- d. in dry climates

ANSWER: d

23. Which of the following moisture contents is best suited for trim and cabinet woodwork?

- a. 8 to 10 percent b. 12 to 15 percent
- c. 15 to 19 percent d. 20 to 25 percent

ANSWER: a

24. Which of the following is a consistent characteristic of green lumber?

- a. it is green in colour b. it is heavier than dry lumber
- c. it is lighter in weight than dry lumber d. it is lighter in colour than dry lumber

ANSWER: b

25. What is lumber that is surfaced on four sides called?

- a. S lumber b. SS lumber
- c. S4S lumber d. S2S lumber

ANSWER: c

26. Where is lumber straightened, smoothed, and uniformly sized?

- a. at a sawmill b. at a lumber mill
- c. at a planer mill d. at a smoother mill

ANSWER: c

27. How should lumber be delivered to a jobsite?

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- a. completely covered with tightly wrapped canvas tarpaulins
- b. stacked in order of use
- c. stored on the ground with strips between each layer
- d. stacked with the shorter pieces on the bottom of the pile

ANSWER: b

28. What is the term used to describe a fault in lumber that detracts from its appearance, function, or strength?

- a. second b. discard
- c. detract d. defect

ANSWER: d

29. What are checks caused by?

- a. uniform drying
- b. twisting of the tree
- c. the ends drying faster than the rest of the board
- d. the centre drying faster than the ends of a board

ANSWER: c

30. Which of the following can help prevent checks in lumber?

- a. drying lumber at a faster rate
- b. sealing the ends of lumber with paint or wax
- c. pre-finishing the lumber with a dark coloured stain
- d. wrapping the centre to slow down drying

ANSWER: b

31. What does a cross-section of branches in a tree trunk create?

- a. pith b. knots
- c. cups d. pith pockets

ANSWER: b

32. In which part of the tree are the wood's cells not well-aligned?

- a. juvenile wood b. pith
- c. summer wood d. spring wood

ANSWER: a

33. What is the standard thickness of a board?

- a. under one inch (25 mm) thick b. under two inches (50 mm) thick
- c. under three inches (75 mm) thick d. under four inches (100 mm) thick

ANSWER: b

34. At what thickness does wood become a timber?

- a. 2" (50 mm) b. 3" (75 mm)
- c. 4" (100 mm) d. 5" (125 mm)

ANSWER: c

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35. Which of the following categories could include built-up beams and girders?

- a. timbers b. dimension lumber
- c. joists d. planks

ANSWER: b

36. Which of the following shows hardwood graded from best to worst?

- a. select, No. 1 common, FAS b. No. 1 common, FAS, select
- c. FAS, select, No. 1 common d. No. 1 common, select, FAS

ANSWER: c

37. What is the actual measurement of a nominal 2×4 ?

- a. 2" (50 mm) $\times$ 4" (100 mm) b. 1 7/8" (47 mm) $\times$ 3 1/2" (89 mm)
- c. 1 1/2" (38 mm) $\times$ 3 3/4" (95 mm) d. 1 1/2" (38 mm) $\times$ 3 1/2" (89 mm)

ANSWER: d

38. In Canada, softwood lumber quantity is calculated in board feet and in what other measure?

- a. square feet b. cubic feet
- c. square metres d. cubic metres

ANSWER: d

39. Which formula is used to find board feet?

- a. length (in feet) $\times$ width (in inches) divided by number of pieces
- b. width (in inches) $\times$ thickness $\times$ length (in feet) $\times$ number of pieces
- c. number of pieces $\times$ thickness (in inches) $\times$ width (in inches) $\times$ length (in feet) $\div$ 12
- d. number of pieces $\times$ thickness (in inches) $\times$ width (in inches) $\times$ length (in feet) $\div$ 12

ANSWER: c

40. Which of the following hardwood types would be preferred for high-quality furniture?

- a. beech b. hickory
- c. walnut d. pine

ANSWER: c

41. Which of the following wood species is used for siding?

- a. cherry b. poplar
- c. cedar d. ash

ANSWER: c

42. With proper care, how long will wood last?

- a. for 5 years b. for 20 years
- c. for 100 years d. indefinitely

ANSWER: d

43. How many board feet are in 45 pieces of $1 \times 4 \times 10$ feet long?

- a. 150 b. 160

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- c. 170 d. 180

ANSWER: a

44. Which part of a tree transfers water to the leaves?

- a. heartwood b. pith
c. sapwood d. hardwood

ANSWER: c

45. What is the best way to learn the characteristics of different species of wood?

- a. reading about them b. working with them
c. taking a walk in the woods d. talking to a carpenter

ANSWER: b

46. Which of the following is a commonly used and abundant softwood?

- a. alder b. basswood
c. fir d. poplar

ANSWER: c

47. When is wood normally kiln-dried?

- a. before the log is sawn into boards b. after sawing and planing
c. after grading d. after sawing and before planing

ANSWER: d

48. Which of the following pairs of hardwood species are most often used for floors?

- a. oak and maple b. beech and birch
c. cypress and bubinga d. poplar and cherry

ANSWER: a

49. What does green lumber contain large amounts of?

- a. sap b. pitch
c. water d. heat

ANSWER: c

50. When we speak of the amount of water in lumber, what do the initials “MC” represent?

- a. moisture content b. more cells
c. most cells d. moisture in cells

ANSWER: a