

Carpentry IP Red Seal Practice Exam

1. How is an exterior door installed where the floor is not level?
 - a. Insure that the frame is square and install it out of plumb so that the threshold maintains full contact with the floor.
 - b. Shim threshold at $\frac{1}{4}$ points to insure the frame is plumb, caulk gap and insulate where possible.
 - c. Shim the low side of the jamb to level and plumb frame and fill gap with expanding foam insulation.
 - d. Cut a continuous shim full width of the door to level and plumb frame, caulk shim to floor and threshold to shim then insulate.

2. An exterior door is installed in a rough opening and the top corner on the strike side does not close tight to the weather-stripping. How is this corrected?
 - a. Shim behind the brick mould at the bottom on the strike side and at the top on the hinge side.
 - b. Shim behind the brick mould at the bottom on the hinge side and at the top on the strike side.
 - c. Shim behind the brick mould at the bottom of the strike side.
 - d. Shim behind the brick mould at the top on the hinge side.

3. If the top of a window is 400 mm (16") below the soffit and the roof overhang is 600 mm (24"). How is the window weather proofed?
 - a. Install a double layer of building paper at the top of the window.
 - b. Use a peel & stick membrane around the window.
 - c. Install a flashing under the moisture barrier at the top of the window.
 - d. Install moisture barrier over nailing fin at the top of the window.

4. What is required before installing asphalt shingles to a roof?
 - a. Install eave protection.
 - b. Install roof edge.
 - c. Install first row of shingles.

- d. Install roof vents.
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- 5. When a chimney on a sloped roof is more than 750 mm (30") wide, what must be done to protect the roof from the build-up of snow at the junction?
 - a. Install a saddle.
 - b. Install flashing at least 150 mm (6") up the chimney.
 - c. Install a flat section of roof behind the chimney.
 - d. Install a membrane flashing up the chimney
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- 6. What procedure is used to install asphalt shingles around a masonry chimney?
 - a. Install step flashing, roofing and then counter flashing.
 - b. Install roofing, counter flashing and then step flashing.
 - c. Install step flashing, counter flashing then roofing.
 - d. Install roofing and step flashing alternately and then counter flashing.
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- 7. When attaching angle iron to support a masonry veneer on a four story building how is it fastened to the building structure?
 - a. At the top of grade level foundation wall only.
 - b. At the top of foundation wall and midpoint of the building.
 - c. At the top of foundation wall and every other floor level.
 - d. At the top of foundation wall and at each floor level.
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- 8.. What must be done prior to installing vertical vinyl siding to a wall?
 - a. Install horizontal strapping at 600 mm (24") o/c.
 - b. Install horizontal strapping at 1200 mm (48") o/c.
 - c. Install vertical and horizontal strapping at 400 mm (16") o/c.
 - d. Install vertical strapping at 600 mm (24") o/c.
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- 9.. How should horizontal vinyl siding be at outside corners?
 - a. Mitered at the outside corners.
 - b. Butted into vertical corner posts.
 - c. Installed with vinyl corners allowing room for expansion.

d. Butted at the outside corner and covered with a vinyl corner post.

10. What should be done to prevent the build-up of moisture between a rainscreen type cladding and the outside face of the wall?

- a. Provide drainage holes every 1200 mm (4').
- b. Seal continuously to insure no water can get in.
- c. Provide a secondary drainage plane and weep holes.
- d. Install vertically so water will run off without penetrating.

11. Where should a frieze board be attached to the exterior of a building?

- a. Attached above the windows and doors first then down the sides.
- b. Installed vertically at the corners of the building.
- c. Installed horizontally at the junction of the wall and soffit.
- d. Installed horizontally at the junction of the foundation and the framed wall.

12. What adjustment must be made when closing a casement window, if the lock mechanism will not close fully (too tight)?

- a. Moving the locking arm in towards the window.
- b. Moving the latch up.
- c. Moving the latch down.
- d. Moving the latch in.

13. 3 bundles cover 100 sq. ft. Allowing 10% for waste and starter strip, how many bundles of regular 3-tab asphalt shingles are required to complete a gable roof surface of 1 190 sq. ft.?

- a.34
- b.35
- c.37
- d.40

14. What minimum lineal metres (feet) of 38 mm × 38 mm (2 in. × 2 in.) horizontal strapping at 600 mm (24 in.) o.c. are needed for a wall 2 900 mm (9 ft. 6 in.) high and 9 m (29 ft. 6 in.) long?

- a. 45 m / 147 ft. 6 in.
- b. 54 m / 177 ft. 0 in.
- c. 56 m / 206 ft. 6 in.
- d. 63 m / 236 ft. 0 in.

15. What is done to roof sheathing when a continuous ridge vent is used?

- a. Install two layers of saturated felt.
- b. Treat the edges.
- c. Provide a space at the top.
- d. Double nail the top edge.

16. After insulating between the rough opening and the jamb, the door binds on the strike side of the jamb. How is this situation corrected?

- a. By planing the door to fit the opening.
- b. By setting the hinge gain 2 mm (1/16 in.) deeper.
- c. By removing the insulation and re-insulating.
- d. By reshimming and fastening.

17. To avoid heat loss by conduction, foundation should be insulated how far below finished grade?

- (a) 25 mm
- (b) 100 mm
- (c) 200 mm
- (d) 600 mm

18. Which of the following materials is considered the better thermal insulator?

- (a) Glass
- (b) Concrete
- (c) Wood

(d) Steel

19. Which of the following is an insulation that is extruded or expanded and is relatively impervious to water and water vapour?

- (a) Fiberglass batts
- (b) Rigid foam
- (c) Mineral wool
- (d) Wood

20. What indicates the ability of a material to prevent heat passage?

- (a) BTU.'s
- (b) Density
- (c) RSI value
- (d) Permeance rating

21. Vapour barriers should be installed on which side of the insulation?

- (a) The outside
- (b) The coldest side
- (c) Along the edge strips
- (d) The warm side

22. At what place is it advisable to join sheets of vapour barrier to make it most effective?

- a. In corners
- b. Between supports
- c. Over supports
- d. As far as possible from openings

23. Where is the best place to use caulking to minimize air infiltration or moisture seepage into a wall cavity?

- (a) Around windows and doors
- (b) Between double studs
- (c) Along the sole plate
- (d) All of the above

24. When warm air is cooled by contact with a cool surface, the result may be:

- a. Hydration
- b. Evaporation

- c. Condensation
- d. Consolidation

25. Which of the following is a true statement regarding energy efficient housing?

- a. Extra insulation is used
- b. A double wall system may be used with insulation installed between them
- c. Air-tightness is increased to provide less heat loss
- d. All of the above

26. What are two types of wall framing for energy efficient construction?

- a. Offset stud and second wall
- b. Staggered plate and double plate
- c. Staggered wall and double stud
- d. Staggered stud and double wall

27. In addition to the danger of falling when installing the fascia because you need both hands to hold and nail the fascia in place, what other danger is often present?

- a) using a pneumatic tool will require the nails to fire towards you
- b) using a pneumatic tool will require the operator to lean out more
- c) gusts of wind can cause you to lose your balance
- d) impalement from falling on to framing materials

ANSWERS

1. A
2. B
3. C
4. B
5. A
6. D
7. D
8. C
9. C
10. C
11. C
12. C
13. D
14. A
15. C
16. C
17. D
18. C
19. B
20. C
21. D
22. C
23. D
24. C
25. D
26. D
27. B