

RED SEAL STUDY GUIDE PLUMBER YEAR 4

**25 EXAM PREP QUESTIONS
WITH ANSWERS**



APPRENTICES | INSTRUCTORS | INSTITUTES

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UNITY CREST SOLUTIONS INC.

INTRODUCTION

Introducing the Red Seal Study Guide – Plumber.

Ready to dive into the world of Plumber? Meet your ultimate companion – the Red Seal Study Guide for Plumber. This practical booklet is your go-to practice tool to conquer your Plumber exam.

Presented in an easy Q&A format, this guide lets you preview the kinds of questions you'll tackle on the real exam day. Consider it a sneak peek into what's coming your way!

Inside its pages, you'll find a treasure trove of Plumber essentials. It's more than just answering questions – it's about truly grasping the basics of Plumber in a way that sticks. Whether you're starting fresh or aiming to refine your skills, this guide has got you covered.

So, get set to challenge yourself, learn in a breeze, and build up your Plumber expertise. With the Red Seal Study Guide, you're all set to take that significant stride toward becoming a certified Plumber.

Ready to get started? For more information, tips, and resources, head over to www.RedSealStudyGuide.ca
Plumber success starts here – dive in!



DISCLAIMER

Study Guide Disclaimer: Important Notice

The Red Seal Study Guide – Plumber is a reference tool meant to enhance your exam preparation. It offers insights into potential question formats. However, it's vital to know that this guide should complement, not replace, official government-issued study materials.

For comprehensive readiness, we recommend using both this guide and official resources provided by relevant authorities. Please note that this guide covers exams across Canadian provinces, but slight content variations might exist.

For your best chance at success, ensure a well-rounded preparation approach that includes official materials.

Good luck on your path to becoming a certified Plumber!

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Let's craft your future together!



1. How many fixture units would an air conditioner discharge 0.05 L/s of condensate into a floor drain?

- A: 1
- B: 5
- C: 2
- D: 11

2. A 20-inch-high, 32-inch-long convector wall unit with 65-degree air and 215-degree hot water has an MBH rating of:

- A: 8.6
- B: 6.6
- C: 4.4
- D: 7.6

3. Thermally controlled dampers shut if the bimetal fails.

- A: True
- B: False

4. A 6" sanitary building drainage main clean-out requires which of the following minimum clean-out size?

- A: 6 in
- B: 4 in
- C: 2 in
- D: 5 in

5. Water pressure and rapid velocity variations need _____ to be placed everywhere the water distribution line changes direction or height.

- A: Air relief valves
- B: Flexible seals
- C: Thrust blocks
- D: Asbestos-cement

See answers on the next page.



1. ☐ A ☐ B ☒ C ☐ D

Note: _____

2. ☐ A ☐ B ☐ C ☒ D

Note: _____

3. ☐ A ☒ B

Note: _____

4. ☐ A ☒ B ☐ C ☐ D

Note: _____

5. ☐ A ☐ B ☒ C ☐ D

Note: _____



6. The electronic control board's _____ connections provide a humidifier's 120 Volt power.

- A: L1 and L2
- B: R/G
- C: HTG ACC/COM
- D: R/Y

7. Sometimes pipework can climb high enough to avoid reverse siphonage. A pipe that rises at least 35 feet above its topmost fixture is:

- A: Barometric loop
- B: Check valve
- C: Area isolation
- D: Back-siphonage preventer

8. Multiple-impeller pumps enhance water output by _____.

- A: Velocity
- B: Temperature
- C: Pressure
- D: Flow

9. What is the vent size for dual venting two fixtures with 1 1/4 trap arms and 1 1/2 trap arms?

- A: 1 ½
- B: 2 ¾
- C: 1 ¾
- D: 2

10. A twin-tank water softener holds brine and:

- A: Green Sand
- B: Soda Ash
- C: Activated Carbon
- D: Zeolite

See answers on the next page.



6. ☐ A ☐ B ☒ C ☐ D

Note: _____

7. ☒ A ☐ B ☐ C ☐ D

Note: _____

8. ☐ A ☐ B ☒ C ☐ D

Note: _____

9. ☒ A ☐ B ☐ C ☐ D

Note: _____

10. ☐ A ☐ B ☐ C ☒ D

Note: _____



11. Determine the force on a closed 6" gate valve with 46 Psig water pressure.

- A: 2604
- B: 867
- C: 5202
- D: 1300

12. How can you lengthen a flushometer flush?

- A: Move regulating screw clockwise
- B: Throttle stop valve
- C: Counter-clockwise regulating screw
- D: Remove the vacuum breaker

13. Water study shows that lower pH numbers indicate greater _____.

- A: Turbid
- B: Neutral
- C: Acidic
- D: Alkaline

14. A 20m-by-26m flat roof with a 6-m-by-20m horizontal wall. How big is the circular rainwater leader if the 15-minute rainfall is 24mm?

- A: 6
- B: 7
- C: 2
- D: 9

15. How high can 30psi street pressure push water in a 2in vertical water pipe?

- A: 70.85
- B: 67.40
- C: 69.12
- D: 74.20

See answers on the next page.



11. ☐ A ☐ B ☐ C ☒ D

Note: _____

12. ☐ A ☒ B ☐ C ☐ D

Note: _____

13. ☐ A ☐ B ☒ C ☐ D

Note: _____

14. ☒ A ☐ B ☐ C ☐ D

Note: _____

15. ☐ A ☐ B ☒ C ☐ D

Note: _____



16. What is the minimum space required around the handle of a fire hose cabinet valve for proper operation?

- A: 2"
- B: 3"
- C: 1"
- D: 1 ½ "

17. Horizontal offset piping used for expansion purposes should be installed at a minimum of ____ meters.

- A: 1.5
- B: 2.5
- C: 2.7
- D: 3.1

18. Which device prevents potable water backflow when chemicals are applied to a hydronic heating system?

- A: RP gadget
- B: PVB device
- C: Air gap
- D: DCVA

19. Copper pipes are fitted in -10°F environments. Normal operation heats the pipe to 250°F. For a 200-foot pipe from anchor to elbow, the estimated thermal movement is:

- A: 5.93
- B: 4.45
- C: 3.84
- D: 5.70

20. What does 135 cubic feet of water weigh?

- A: 8025.5lbs
- B: 8437.5lbs
- C :7875lbs
- D: 8158.26lbs

See answers on the next page.



16. ☐ A ☐ B ☒ C ☐ D

Note: _____

17. ☒ A ☐ B ☐ C ☐ D

Note: _____

18. ☒ A ☐ B ☐ C ☐ D

Note: _____

19. ☒ A ☐ B ☐ C ☐ D

Note: _____

20. ☐ A ☒ B ☐ C ☐ D

Note: _____



21. What is the maximum support spacing for a nominally horizontal PVC plastic DWV pipe?

- A: 1500 mm
- B: 1600 mm
- C: 1200 mm
- D: 2200 mm

22. What is the minimum well pump suction pipe size?

- A: Pump inlet size
- B: Pump distance to well water
- C: Pump discharge opening size
- D: Size of the pump cylinder

23. What is the pumping rate of a pressure system with a 5.6 gallons drawdown and 55 seconds cycle time?

- A: 6.1 gallons per minute
- B: 5.13 gal/min
- C: 11.2 gal/min
- D: 8.4 gal/min

24. Only piston and diaphragm flush valves are made for water closets.

- A: True
- B: False

25. Gas hoses and fittings must be authorized for _____ psig.

- A: 350
- B: 100
- C: 50
- D: 475



21. ☐ A ☐ B ☒ C ☐ D

Note: _____

22. ☒ A ☐ B ☐ C ☐ D

Note: _____

23. ☒ A ☐ B ☐ C ☐ D

Note: _____

24. ☒ A ☐ B

Note: _____

25. ☒ A ☐ B ☐ C ☐ D

Note: _____



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





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