

RED SEAL STUDY GUIDE AUTOMOTIVE SERVICE TECHNICIAN YEAR 3

**25 EXAM PREP QUESTIONS
WITH ANSWERS**



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UNITY CREST SOLUTIONS INC.

INTRODUCTION

Introducing the Red Seal Study Guide – Automotive Service Technician.

Ready to dive into the world of Automotive Service Technician? Meet your ultimate companion – the Red Seal Study Guide for Automotive Service Technician. This practical booklet is your go-to practice tool to conquer your Automotive Service Technician 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 Automotive Service Technician essentials. It's more than just answering questions – it's about truly grasping the basics of Automotive Service Technician 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 Automotive Service Technician expertise. With the Red Seal Study Guide, you're all set to take that

significant stride toward becoming a certified Automotive Service Technician.

Ready to get started? For more information, tips, and resources, head over to www.RedSealStudyGuide.ca



DISCLAIMER

Study Guide Disclaimer: Important Notice

The Red Seal Study Guide – Automotive Service Technician 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 Automotive Service Technician!

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Let's craft your future together!



1. Timing chains are replaced when slack exceeds

- A: 13 mm (1/2 in.)
- B: 25 mm (1 in.)
- C: 6 mm (1/4 in.)
- D: 19 mm (3/4 in.)

2. The API service category for diesel engine oil and diesel fuels with up to 0.5% sulfur by weight is _____.

- A: CH-4
- B: CF-4
- C: CG-4
- D: CF-2

3: Motorized actuators fully extend in manual t-case applications when the smart motor is _____.

- A: Ground connected to the terminal
- B: Power removed from terminal D
- C: B+ attached to terminal D
- D: Power applied to terminal E

4. The voltage regulator controls

- A: Output current
- B: Field Current
- C: Stator circuit
- D: Rectification

5. Load testing a 400-CCA battery. Correct load:

- A: 200 amps
- B: 330 amps
- C: 1200 amps
- D: 400 amps

See answers on the next page.



1. ☒ A ☐ B ☐ C ☐ D

Note: _____

2. ☒ A ☐ B ☐ C ☐ D

Note: _____

3. ☐ A ☐ B ☒ C ☐ D

Note: _____

4. ☐ A ☒ B ☐ C ☐ D

Note: _____

5. ☒ A ☐ B ☐ C ☐ D

Note: _____



6. AC systems typically enable a minimum airflow of about ____% from the outside air inlet to enter, preventing complete blockage

- A: 60
- B: 20
- C: 50
- D: 40

7. Which lead-acid automotive battery is most chemically active?

- A: Separator plate
- B: Plate strap
- C: Negative plate
- D: A positive plate

8. A fully charged lead-acid car battery freezes at _____°C.

- A: -10
- B: -80
- C: 0.0
- D: -40

9. A _____ engine has no oil container.

- A: Four-stroke diesel
- B: Two-stroke gasoline
- C: Four-stroke gasoline
- D: 2-stroke diesel

10. "What are common components of an automotive engine's emission control system?"

- A: PCV (positive crankcase ventilation)
- B: The fuel injector valve
- C: Oxygen detector
- D: Mass Air Flow sensor

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. Break in a new or rebuilt engine during the initial road test.

- A: From 50 to 80km/h, full throttle
- B: Light throttle (30–50 mph)
- C: Maximum speed under 50 km/h
- D: Full-throttle acceleration from 50-80km/h (30-50 mph)

12. The gas propellant activates the igniter charge

- A: Cable
- B: Spiral ribbon (clock spring)
- C: Arming airbag sensor
- D: Squib

13. The throttle position sensor turns off canister purging and EGR when the engine is at:

- A: Wide open throttle
- B: Deceleration
- C: Full throttle
- D: Acceleration

14. Electronic tachometer:

- A: Receives voltage pulses
- B: Starting signal
- C: Receives voltage pulses from transmission-driven gear
- D: Injectors

15. Burning fuel creates about ____ liters of water for every liter of gasoline.

- A: 0.75
- B: 0.25
- C: 0.50
- D: 1.0

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. Which of the following is not a detergent used in oil?

- A: Phenates
- B: Carbonates
- C: Sulfonates
- D: Phosphates

17. Check the pitman arm when rocking a car on a hoist. The pitman arm should move laterally.

- A: 0 degree
- B: 10-degree
- C: 5-degree
- D: 25 degrees

18. Estimate the charge condition of a sealed battery using its open-circuit voltage. A few-hour-old, fully charged battery has an open-circuit voltage of at least:

- A: 12.2 V
- B: 9.6 V
- C: 12.6
- D: 11.5

19. Controllers get data from sensors and other inputs.

- A: Pressure
- B: Temperature
- C: Resistance
- D: Voltage

20. To run an air conditioner system, the hand-operated service valve (stem type) must be opened.

- A: Clockwise
- B: Counterclockwise

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. A standard ring and pinion gear transfers force to the front axle of a 4X4.

- A: Planetary reduction gear
- B: PCM
- C: Viscous coupling
- D: Conventional pinion gear

22. The valve margin should be at least _____ with most valves.

- A: 1.50 mm (1/16 in.)
- B: 0.75 mm (1/32 in.)
- C: 3-mm (1/8 in)
- D: 0.38 mm (1/64 in.)

23. No MSDS preparation date exceeds how many years? An open circuit voltage test on a 50%-charged battery yields the following DVOM reading:

- A: 3 V
- B: 12.0 V
- C: 12.4 V
- D: 12.6 V

24. A drum brake system's self-adjuster over travel spring does what?

- A: Helps maintain shoe tension
- B: Prevents over-adjustment
- C: Prevents link rattling
- D: Activates adjuster pawl

25. Engine bearing clearance requirements are usually between

- A: 0.05-0.10 mm (0.002-0.004 in.)
- B: 0.001–0.003 in
- C: 0.00–0.05 mm
- D: 0.025–0.075 mm



21. ☐ A ☐ B ☐ C ☒ D

Note: _____

22. ☐ A ☒ B ☐ C ☐ D

Note: _____

23. ☒ A ☐ B ☐ C ☐ D

Note: _____

24. ☐ A ☒ B ☐ C ☐ D

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)
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- 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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