

RED SEAL STUDY GUIDE AUTOMOTIVE SERVICE TECHNICIAN YEAR 1

**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. Remove cylinder head bolts in the prescribed order,

- A: Back-to-front
- B: Manufacturer's manual
- C: Front-to-back
- D: Any order

2. Crack detection in non-ferrous metal parts is best achieved using _____ testing.

- A: Fluorescent magnetic
- B: Particle
- C: Magnetic particle
- D: Pressure

3. Low gear ratio transfer cases cannot switch to direct drive or 1:1 ratio. Which cause is most likely?

- A: Fallen shift
- B: Shaft spring
- C: Bad shift indicator
- D: Shift shaft broke

4. Why adjust drum brakes?

- A: Liner wear compensation
- B: Avoiding brake fluid evaporation
- C: Prevent loose wheel bearings
- D: To cut fluid loss

5. A Digital Ohmmeter is used for component measurement. The meter reads 3.725K ohms. This suggests.

- A: 1.725ohms
- B: 3,725 ohms
- C: 0.3725 ohms
- D: 3,725,000 ohms

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. The piston ring end gap averages 0.10 mm.

- A: On most engines
- B: Per 25 mm (1 in.) bore size
- C: Per 100 mm (4 in.) bore size
- D: To avoid blowby

7. Dirty posts are commonly the source of automotive battery issues.

- A: True
- B: False

8. If the starter spins but does not start the engine, the suspected cause is:

- A: High motor feed resistance
- B: High motor control circuit resistance
- C: Poor overrunning clutch
- D: Faulty solenoid

9. Which of the following can induce clutch slippage?

- A: Rear main seal leak
- B: Damaged torsional springs
- C: Too much input shaft end play
- D: Crappy clutch release bearing

10. Power brakes' reaction disc transfers about ____% of the master cylinder push rod load to the brake pedal input pushrod.

- A: 35
- B: 30
- C: 40
- D: 45

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. A short power assist brake booster push rod causes which?

- A: Brake system failure
- B: High brake pedal travel
- C: High brake drags
- D: The brake light glows

12. The piston has piston rings.

- A: Ring-expander piston
- B: Pliers for snap-rings
- C: Piston ring
- D: Compressor press

13. Which static timing method of a light truck diesel engine is uncommon?

- A: Timing Pin Method
- B: Scribe Mark Use
- C: Dial Indicator
- D: Light Timing Method

14. Engine knock sensors use

- A: Voltage-divider pickup
- B: Potentiometer
- C: Thermocouple
- D: Piezoresistive crystals

15. The function of the _____ is to prevent manual transmission shift mechanisms from jumping out of gear

- A: Interlock system
- B: Synchronizer sleeve
- C: Detent system
- D: Obstructing ring

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 best describes input processing concerning a microprocessor?

- A: Translates information
- B: Controls high-current devices
- C: Stores information
- D: Synchronizes events

17. Valve springs are examined for free height, squareness, and _____.

- A: Off-round
- B: Valve open
- C: Height Twist
- D: Tension

18. The FM radio band has a low frequency.

- A: High
- B: Half
- C: Low
- D: Decreased

19. Find the answer that does not fit the situation. Be sure to read the question before answering. All the following can be seen on the power steering serpentine belt, except:

- A: Correct dual belt orientation
- B: Applying correctly
- C: Avoid premature wear by properly installing the belt in the pulley
- D: Belt tension

20. A MAP The idle sensor should read

- A: 2.7v to 3.3v
- B: 1.4v to 1.7v
- C: 1.8–2.6v
- D: 2.7–3.3v

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. To connect a vehicle's main fuel line, technicians must

- A: First depressurize the fuel system
- B: Disconnect the tank gasoline line
- C: Disconnect fuel power
- D: Unplug the battery pump

22. A gearbox with a small input gear driving a larger gear will have a torque while the speed is ____.

- A: Increased
- B: Reduced

23. Engine bearing clearance standards typically range

- A: From 0.025 to 0.075 mm (0.001 to 0.003 in.)
- B: From 0.05 to 0.10 mm (0.002 to 0.004 in.)
- C: 0.075 to 0.125 mm (0.003 to 0.005 in.)
- D: 0.00–0.05 mm

24. The battery capacity tester that empties the battery quickly is none of the following.

- A: Load tester
- B: Ammeter
- C: Hydrometer
- D: Piston ring

25. Internal surfaces of the differential case are cut to match

- A: Pinion
- B: Shim thrust washer
- C: Side bearings
- D: Pinion gears



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)
- 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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