



**POSTAL SERVICE**  
**STUDY GUIDE**

**Postal Service  
Practice Exam  
Sample Exam # 4  
Exam # 943E**

## About Exam 943E

This exam is only used for a very small number of positions, primarily the Automotive Mechanic position. This exam is also part of the Automotive Technician exam. The Automotive Mechanic position is more widely available than the Automotive Technician position. If you are interested in this career field then it is best to have some knowledge or background on auto repair. If you are interested in this career field, we would also suggest checking out books on auto repair at your local library to ensure that you are capable of being prepared for this exam.

# Sample EXAM # 4

In addition to studying the sample exam below, we suggest that you obtain books and material on tools, brakes, steering, shop equipment, transmissions and rear axles. These types of books may be obtained from your local library. This will best prepare you for the actual exam.

1. Which of the following conditions will result when a brake drum is out of round?
  - A) a low pedal
  - B) a spongy pedal
  - C) a high pedal
  - D) a pulsating pedal
  - E) a hard pedal
  
2. Which one of the following emission control systems is common to all cars and light trucks made at the present time in the U.S.?
  - A) AIR - Air Injection Reaction
  - B) PCV - Positive Crankcase Ventilation
  - C) CCC - Computer Controlled Combustion
  - D) II - Improved Ignition
  - E) ACS - Air Cleaning System
  
3. In an automatic transmission, which of the following is part of a planetary gear set?
  - A) impeller
  - B) modulator
  - C) pinion
  - D) alternator
  - E) rotor

4. During a cylinder leakage test, what is indicated when air escapes through the radiator from two adjacent cylinders?

- A) worn cylinder walls
- B) defective cylinder head gasket
- C) leaking piston rings
- D) worn exhaust valves
- E) burnt intake valves

5. Which of the following would cause a soft, spongy brake pedal?

- A) air in the hydraulic system
- B) bent caliper retainer
- C) warped rotors
- D) out of round drum
- E) loose lug nut

6. A PCV valve is controlled by which of the following?

- A) valve lifter
- B) throttle cable
- C) engine vacuum
- D) rocker arm
- E) exhaust pressure

7. What is wrong during a compression test, if a low compression reading goes up after a small amount of oil is squirted into a spark plug hole?

- A) defective rocker arm
- B) worn lifter
- C) cracked cylinder head
- D) worn piston rings
- E) burnt intake valve

8. A vacuum gauge connected to a well tuned engine should show a steady reading between which of the following during engine idle?

- A) 23" - 27"
- B) 4" - 8"
- C) 14" - 22"
- D) 32" - 38"
- E) 28" - 32"

9. The front band of an automatic transmission is applied through which of the following?

- A) servo lever
- B) rear clutch
- C) flywheel
- D) pinion gear
- E) shaft bearing

10. Which of the following is used to adjust the up and down clearance between an I-beam or solid front axle and the steering knuckle?

- A) idler arm
- B) truck arm
- C) thrust bearing
- D) king pin
- E) spacer shims

**Correct Answers for questions in Sample Exam # 4**

- |      |      |      |      |       |
|------|------|------|------|-------|
| 1. D | 2. B | 3. C | 4. B | 5. A  |
| 6. C | 7. D | 8. C | 9. A | 10. E |