Automotive Engines 10th

| 1. Which of the following is NOT reciprocating weight? | 1. |
|--|--------|
| A) Piston | |
| B) Big end of a connecting rod | |
| C) Small end of a connecting rod | |
| D) Piston ring | |
| 2. The bob weight must equal weight of the oil between the journal and bearing, plus the | . 2. |
| A) weight of all the pistons | |
| B) rotating weight | |
| C) a percentage of the reciprocating weight | |
| D) Both B and C | |
| 3. When balancing pistons, which of these is done? | 3. |
| A) Choose heaviest and add weight to the others | |
| B) Choose heaviest and grind weight off until it matches the average of all the others | |
| C) Choose lightest and grind material from other pistons until all pistons are of equal | weight |
| D) Balance piston only after it is assembled with the connecting rod | |
| 4. What process can be used to balance a crankshaft? | 4. |
| A) Material is welded onto the counterweight | |
| B) Heavy metal is used to increase the weight of the counterweight | |
| C) Material is drilled out of the counterweight | |
| D) Any of these may be used | |



A) Valve air flowB) Combustion chamber volumeC) Cylinder head thicknessD) Spark plug bore diameter

| 6. The big end of the rod is considered to be A) rotating weight B) reciprocating weight C) inertia weight D) Both A and B | 6 |
|--|----|
| 7. Which of these are attached to the rod journals on V-type engines to simulate the weight of the rods and pistons? A) Bob weights B) Counterbalances C) Pad weights D) Longer bolts | 7 |
| 8. Technician A says that material is drilled out of the counterweight to balance a crankshaft. Technician B says that only rotating weight is considered during the balancing procedure. Which technician is correct? A) Technician A only B) Technician B only C) Both technicians A and B D) Neither technician A nor B | 8 |
| 9. A(n) is used to determine correct pushrod length. A) adjustable pushrod B) feeler gauge C) dial indicator D) vernier caliper | 9 |
| 10. When balancing a 4-cylinder engine, all of the following parts are needed, EXCEPT A) crankshaft B) damper C) flywheel | 10 |

D) valve springs

Answer Key Testname: ENGINES 10 33A

- 1. B
 - Page Ref: 471
- 2. D
 - Page Ref: 472
- 3. C
 - Page Ref: 471
- 4. D
 - Page Ref: 473
- 5. B Page Ref: 475
- 6. A
 - Page Ref: 471
- 7. A
 - Page Ref: 472
- 8. A

Page Ref: 471

9. A

Page Ref: 479

10. D

Page Ref: 471