

# Written Quiz

- |  | <b><u>POINTS</u></b> |
|--|----------------------|
| 1. A cooling device in which water from the fire pump does not mix with the radiator coolant is called and _____ . | <u>20</u>            |
| 2. With a _____ water enters the radiator directly from the discharge side of the pump.                            | <u>20</u>            |
| 3. List three (3) operations or conditions which cause engine heat build-up during pumping operations.             | <u>30</u>            |
| 4. What are two major disadvantages of the direct cooler devices?  | <u>20</u>            |
| 5. Transmission coolers or heat exchangers are generally operator controlled.                                      | <u>10</u>            |
| True          False  |                      |

**POINTS POSSIBLE:**      100

**POINTS DEDUCTED:**

**FINAL SCORE:**

**POINTS**

1. A cooling device in which water from the fire pump does not mix with the radiator coolant is called and **INDIRECT COOLER**. 20
2. With a **DIRECT COOLER** water enters the radiator directly from the discharge side of the pump. 20
3. List three (3) operations or conditions which cause engine heat build-up during pumping operations. 30

**EXTENDED PUMPING OPERATIONS  
OFF-ROAD OPERATION  
STATIONARY PUMPING OPERATIONS**

**PUMPING OPERATIONS ON HIGH AMBIENT  
TEMPERATURE DAYS**

4. What are two major disadvantages of the direct cooler devices? 20

**RADIATOR COOLANT IS CONTAMINATED**

**RADIATOR MAY BECOME OVERPRESSURIZED IF CAP IS  
NOT REMOVED**

5. Transmission coolers or heat exchangers are generally operator controlled. 10

True      **FALSE**

**POINTS POSSIBLE:**      100

**POINTS DEDUCTED:**

**FINAL SCORE:**