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ELECTRICAL ENGINEERING DEPARTMENT
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EE-360

Key Solution

Quiz # 1 Serial # Name: I.D.#

Q.) The two-wattmeter method is applied to a three-phase three-wire 120 V inductive load system. With the meters connected to lines A and B, $W_A = 920$ W and $W_B = 460$ W. Circle the correct answer.

1) The total real and reactive power absorbed by the load are

- (a) $P = 1.38$ KW, $Q = 460$ VAR
- (b) $P = 2.39$ KW, $Q = 460$ VAR
- (c) $P = 1.38$ KW, $Q = 796.7$ VAR**
- (d) $P = 2.39$ KW, $Q = 796.7$ VAR

2) The phase current when the load is Y-connected is

- (a) $I_{ph} = 6.6$ A
- (b) $I_{ph} = 7.7$ A**
- (c) $I_{ph} = 4.4$ A
- (d) $I_{ph} = 3.8$ A