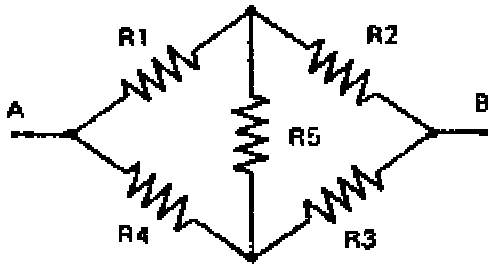
Sample Questions of Examination for Registration as a Grade B Electrical Worker

1. Which of the following methods must be used before calculating the equivalent resistance between point A and B?



A) Series
B) Parallel
C) Series and parallel
D) Star-delta transformation

2. If the earth fault current in the circuit is 315A and the disconnection time for the protection device is found to be 1.2 sec. Calculate the size of the protective conductor used in this circuit. Assume the k value of the protective conductor used is 115.

A) 2.5 mm^2
B) 4 mm^2
C) 6 mm^2
D) 10 mm^2

3. Which of the following test is not a type test for switchboard:

A) Temperature rise
B) Short-circuit strength
C) Degree of protection
D) Internal arcing fault

4. Which of the followings is not correctly described?

A) Three-phase motor has better p.f. and is smaller in size for the same output as compared to single-phase motor, and has better efficiency.

B) Three-phase motor is self-starting, while single-phase motor has no starting torque.

C) the speed of 3-phase induction motor is easier to be varied when compared with single phase motor.

D) the torque produced by a 3-phase motor is of constant nature while the torque developed by a single phase motor is pulsating.

5. Overload protection is required at the point of reduction of current capacity. The reduced current carrying capacity is due to:

(i) reduction in cross sectional area of cable
(ii) different type of cable.
(iii) change in ambient temperature.
(iv) cable installed in a different manner and caused a change in heat dissipation.

A) (i), (ii) & (iii)
B) (i), (ii) & (iv)
C) (ii) & (iv)
D) all

6. When the low voltage electrical installation is completed, the insulation resistance to each other phase should not be less than

A) 50M Ω
B) 10M Ω
C) 1M Ω
D) 0.5M Ω