

SOLUTION OF PREVIOUS YEARS PAPERS
BASIC ELECTRICAL ENGINEERING
UNIT 2 (AC CIRCUITS)

SHORT ANSWER QUESTIONS:-

1. Determine the form factor of ac current $i = 200 \sin (157t + \pi/6)$

Solution: $\rightarrow$ We know that

$$\text{Form Factor } K_f = \frac{\text{RMS Value of Alternating Quantity}}{\text{Average Value of Alternating Quantity}}$$

Here given $I_m = 200 \text{ A}$
For a sinusoidal quantity

$$\text{RMS Value } I_{\text{rms}} = I_m / \sqrt{2}$$
$$I_{\text{rms}} = 200 / \sqrt{2}$$

Also

$$\text{Average Value } I_{\text{av}} = \frac{2 I_m}{\pi}$$
$$I_{\text{av}} = \frac{2 \times 200}{\pi}$$
$$I_{\text{av}} = \frac{400}{\pi}$$

So form factor

$$K_f = \frac{200 / \sqrt{2}}{400 / \pi}$$
$$\boxed{K_f = 1.11}$$

2. Explain the term dynamic impedance in AC circuits

Solution: $\rightarrow$ The Impedance of a circuit having an Inductance and a capacitance in parallel at the frequency at which this impedance has a maximum value. It is also known as rejector impedance.

In parallel resonant circuit

$$\text{Line current } I = \frac{V}{L/RC}$$

Here denominator L/RC is known as dynamic impedance or effective impedance.

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