

Unit I: Assessment Question Bank**Lecture -23**

1. A Capacitor of Capacitance $100\mu\text{F}$ is connected across an AC voltage source $100\sin(100\pi t)$ V. Determine
 - i) Capacitive Reactance
 - ii) Impedance
 - iii) Instantaneous expression for the current

Also, draw the phasor diagram.

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