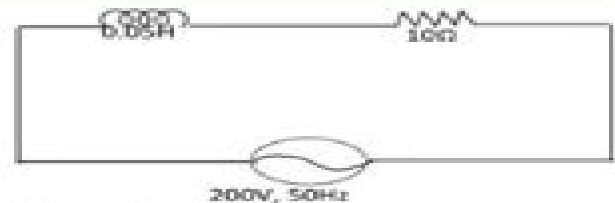



MARKING SCHEME

Question 20

(a)	(i)	 <p> $Z = \sqrt{X_L^2 + R^2}$ OR $Z = \sqrt{(\omega L)^2 + R^2}$ OR $Z = \sqrt{(2\pi fL)^2 + R^2}$ OR $Z = \sqrt{(2 \times 3.14 \times 50 \times 0.05)^2 + 10^2}$ $Z = 18.61 \, \Omega$ $I = \frac{200}{18.61} = 10.74 \, A$ </p>
	(ii)	 <p>OR</p>
(b)	(i)	<p> $E_0 = 200V$ $I_{average} = \frac{2E_0}{\pi R} = \frac{2 \times 200}{3.14 \times 50} = 2.55 \, A$ $E_{rms} = \frac{E_0}{\sqrt{2}} = 141.42 \, V$ </p>
	(ii)	<ul style="list-style-type: none"> $Z = R$ $\cos\phi = 1$

Isc Physics Paper Question 23

LL Leslie



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Reviewing **Isc Physics Paper Question 23**: Unlocking the Spellbinding Force of Linguistics

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