

PYQSide

NEET ALTERNATING CURRENT — AC VOLTAGE APPLIED TO A RESISTOR, RMS AND PEAK VALUES — PYQS

Max. Marks: 16

Questions: 4

Section A (MCQ)

- Q.1** The peak value of an alternating current is 5 A and frequency is 60 Hz. How long will the current, starting from zero, take to reach the peak value ?

[NEET (UG) 2026]

- (1) $\frac{1}{120}$ s (2) $\frac{1}{240}$ s (3) $\frac{1}{30}$ s (4) $\frac{1}{60}$ s

Scan or tap for the
full solution



- Q.2** The peak voltage of the ac source is equal to

[NEET (UG) 2022]

- (1) The value of voltage supplied to the circuit
(2) The rms value of the ac source
(3) $\sqrt{2}$ times the rms value of the ac source
(4) $1/\sqrt{2}$ times the rms value of the ac source

Scan or tap for the
full solution



- Q.3** A standard filament lamp consumes 100 W when connected to 200 V ac mains supply. The peak current through the bulb will be :

[NEET (UG) 2022 (Phase 2)]

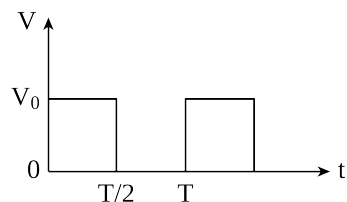
- (1) 2 A (2) 0.707 A (3) 1 A (4) 1.414 A

Scan or tap for the
full solution



- Q.4** The r.m.s. value of potential difference V shown in the figure is

[AIPMT 2011 (Mains)]



- (1) $\frac{V_0}{\sqrt{3}}$ (2) V_0 (3) $\frac{V_0}{\sqrt{2}}$ (4) $\frac{V_0}{2}$

Scan or tap for the
full solution



ANSWER KEY

Ques.	1	2	3	4									
Ans.	2	3	2	3									