TOPIC
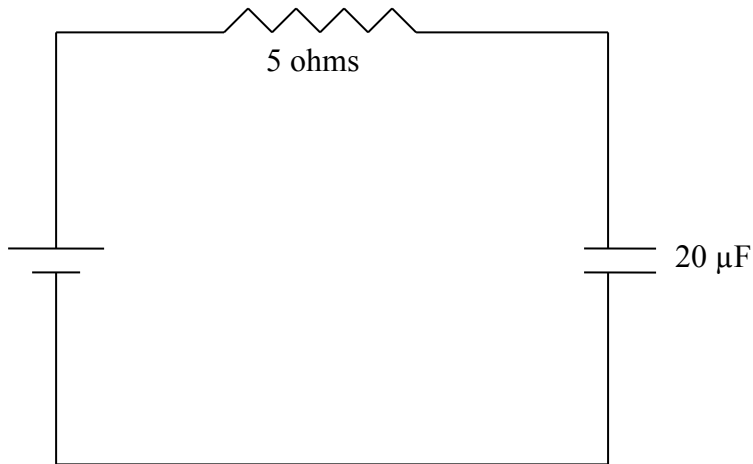Electricity and Magnetism – Section XI – Question 3

QUESTION
For the circuit shown, the time constant τ in seconds is
  (A) 1.0×10^{-4}
  (B) 5.0×10^{-4}
  (C) 4.0×10^{-6}
  (D) 2.4×10^{-4}

HINT
The time constant, τ is given by
  $\tau = RC$

SOLUTION

$$= (5)(20 \times 10^{-6})$$
$$= 10^{-4}\text{s}$$

ANSWER
(A)

CONTRIBUTOR
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