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SUBJECT:- PHYSICS

CLASS:- XTH

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SUBJECT TEACHER:- MR. NEEL NIRANJAN

CHAPTER 1. (ELECTRICITY REVISION) (BASED ON NCERT PATTERN)

1. Two electric bulbs have resistances in the ratio 1:2. If they are joined in series, the energy consumed in them is in the ratio.

- (a) 2:1
- (b) 1:2
- (c) 4:1
- (d) 1:1

Answer: (b) 1:2

2. If the current flowing through a fixed resistor is halved, the heat produced in it will become:

- (a) One-fourth
- (b) One-half
- (c) Double
- (d) Four times

Answer: (a) One-fourth

3. You are given four ammeters A, B, C and D having least counts mentioned below:

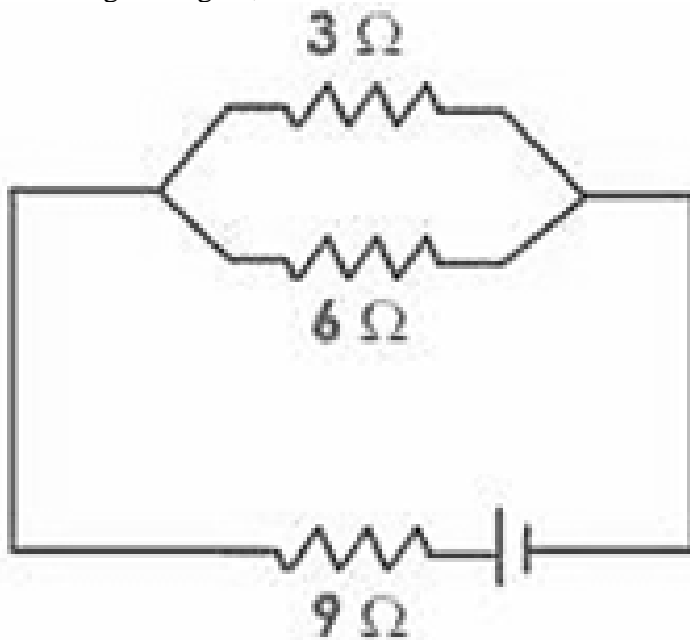
- (I) Ammeter A with least count 0.25 A
- (II) Ammeter B with least count 0.5 A
- (III) Ammeter C with least count 0.05 A
- (IV) Ammeter D with least count 0.1 A

Which of the ammeters would you prefer for doing an experiment to determine the equivalent resistance of two resistances most accurately, when connected in parallel?

- (a) Ammeter A
- (b) Ammeter B
- (c) Ammeter C
- (d) Ammeter D

Answer: (c) Ammeter

4. In the given figure, the resistors



- (a) $6\ \Omega$, $3\ \Omega$ and $9\ \Omega$ are in series
- (b) $9\ \Omega$ and $6\ \Omega$ are in parallel and the combination is in series with $3\ \Omega$
- (c) $3\ \Omega$, $6\ \Omega$ and $9\ \Omega$ are in parallel
- (d) $3\ \Omega$ and $6\ \Omega$ are in parallel and the combination is in series with $9\ \Omega$.