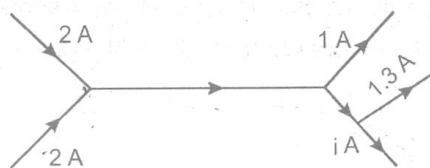


CLASS X- PHYSICS
ELECTRICITY
ASSIGNMENT-1

MULTIPLE CHOICE QUESTION - 1.1

1. How many electrons constitute a current of
(A) 6.25×10^{18} (B) 6.25×10^{12} (C) 6.25×10^{11} (D) 6.25
2. 1 Coulomb is equal to :
(A) 1 amp \times 1 sec (B) 1 amp / 1 sec (C) 1 joule \times 1 amp (D) 1 joule / 1 sec
3. When a body is negatively charged by fraction, it means :
(A) the body has acquired excess of electrons (B) the body has acquired excess of protons
(C) must be zero (D) may be negative or positive or zero
4. If a charged body attracts another body, the charge on the other body :
(A) must be negative (B) must be positive
(C) must be zero (D) may be negative or positive or zero
5. A suitable unit for expressing the strength of electric field is :
(A) V/C (B) C/m (C) N/C (D) C/N
6. One ampere equal :
(A) $10^6 \mu\text{A}$ (B) $10^{-6} \mu\text{A}$ (C) $10^{-3} \mu\text{A}$ (D) 10 mA
7. What constitutes current in a metal wire ?
(A) Electrons (B) Protons (C) Atoms (D) Molecules
8. If I is the current through a wire and e is the charge of electron, then the number of electrons in t seconds will be given by-
(A) $\frac{Ie}{t}$ (B) e/It (C) It/e (D) Ite
9. Conventionally, the direction of the current is taken as -
(A) the direction of flow of negative charges (B) the direction of flow of atoms
(C) the direction of flow of positive charges (D) the direction of flow of molecules
10. Figure shows, current in a part of electrical circuit, then the value of current is -



- (A) 1.7 A (B) 3.7 A (C) 13 A (D) 1.0 A

SUBJECTIVE QUESTION - 1.2

1. What is conventional current ?
2. A wire is carrying current. is it charged ? If yes then, why ?
3. One coulomb of charge flows through any cross section of a conductor in 1 second. What is the current flowing through the conductor ?
4. Which of the two is connected in series, ammeter or voltmeter ?
5. What is the potential difference between the terminals of battery if 250 joules of work is required to transfer 20 coulombs of charge from one terminal of the battery to the other ?