

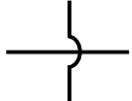





UDAAN 3.0 2024

Electricity

DHA-01

1. How much charge does flow through an electric bulb when a current of 0.5 A flows for an hour?
(A) 1400 C
(B) 1600 C
(C) 1800 C
(D) 2000 C
2. What is electric current?
(A) Rate of change of voltage
(B) Rate of change of resistance
(C) Rate of flow of charge
(D) Rate of flow of power
3. A lamp is connected to a battery. The current in the lamp is 0.32 A. The charge of an electron is 1.6×10^{-19} C. How many electrons flow through the lamp in 1 min?
(A) 1.2×10^{19}
(B) 1.2×10^{20}
(C) 1.2×10^{21}
(D) 1.2×10^{21}
4. Which is a unit of current?
(A) C V^{-1}
(B) C s
(C) C s^{-1}
(D) CV
5. If 50 C of charge flows through a point in an electric circuit in 10 s, what is the current passing through that point?
(A) 0.2 A
(B) 5 A
(C) 60 A
(D) 500 A
6. Which device maintains a potential difference across a conductor?
(A) Cell or battery eliminator
(B) Ammeter
(C) Voltmeter
(D) None of these
7. Electric current flows through a metallic conductor from its one end A to other end B. Which end of the conductor is at higher potential?
(A) End A
(B) End B
(C) Both ends A and B
(D) Neither A nor B
8. What is the SI unit of electric potential?
(A) joule
(B) coulomb
(C) volt
(D) joule per second
9. Which of the following circuit symbols correctly shows a wire joint?
- (A)  (B) 
- (C)  (D) 



Note: Kindly find the Video Solution of DHAs Questions in the DPPs Section.

ANSWERS KEY

1. (C)
2. (C)
3. (B)
4. (C)
5. (B)

6. (A)
7. (A)
8. (C)
9. (B)

Hint and Solutions

- | | |
|--|---|
| <p>1. (C)
Use $Q = It$</p> <p>2. (C)
Current is rate of flow of charge.</p> <p>3. (B)
Use $Q = It = ne$</p> <p>4. (C)
Current (I) = $= \frac{Q}{t} = \frac{C}{S} = CS^{-1}$</p> <p>5. (B)
Use $Q = It$</p> | <p>6. (A)
Battery or cell maintains voltage in the circuit</p> <p>7. (A)
Current flows from higher to lower potential.</p> <p>8. (C)
S.I. unit of electric potential is volt.</p> <p>9. (B)
Current is divided at a wire joint.</p> |
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PW Mobile APP: <https://smart.link/7wwosivoicgd4>

For PW Website: <https://smart.link/sdfez8ejd80if>