ELECTRICITY

- 1. What does an electric circuit mean?
- 2. Define the unit of current.
- 3. Name the two type of electric charge.
- 4. What is SI unit of electric potential?
- 5. What is the name given to flow of electric charge per unit time in a wire?
- 6. Calculate the number of electrons constituting one coulomb of charge.
- 7. The filament of an electric bulb draws a current of 0.4 ampere. Calculate the amount of charge flowing through the filament if the bulb glows for 2 hours. Also calculate the number of electrons passed.
- 8. Calculate the work done in moving a charge of 2C through a potential difference of 5V.
- 9. A polythene piece is rubbed with wool. It is found to acquire a negative charge of 3.2×10^{-7} C. Estimate the number of electrons transferred to the piece.
- 10. How many electrons pass through a wire in 1 minute if the current passing through the wire is 200 mA?
- 11.2.5 mJ of work is done in moving a charge of 10⁻⁶ C from one point to another. What is the potential difference between the two points?
- 12.1020 electrons each having charge of 1.6×10^{-19} C pass from point A towards another point B in 0.1s. Calculate the current in ampere and give its direction.
- 13. Calculate the number of electrons flowing per second to constitute a current of one ampere.

06/01/2021 1 |