

CURRENT ELECTRICITY**Test Paper-II****MAX MARKS: 30****TIME: 30MTS****Match the following****Page: 126****Part-A****Part-B**

- | | | |
|----|-------------------------------|---|
| 1 | Electric current | [T] |
| 2 | Charge | [LT ⁻¹] |
| 3 | Voltage, Potential difference | [A] |
| 4 | Electromotive force | [TA] |
| 5 | Resistance | [ML ² T ⁻³ A ⁻¹] |
| 6 | Resistivity | [ML ² T ⁻³ A ⁻¹] |
| 7 | Electrical Conductivity | [ML ² T ⁻³ A ⁻²] |
| 8 | Electric Field | [ML ³ T ⁻⁴ A ⁻¹] |
| 9 | Relaxation Time | [L ⁻² A] |
| 10 | Current density | [MLT ⁻³ A ⁻¹] |
| 11 | Mobility | [ML ³ T ⁻³ A ⁻²] |
| 12 | Drift speed | [M ⁻¹ L ⁻³ T ³ A ²] |

Match the following**Page: 126****Part-A****Part-B**

- | | | |
|----|-------------------------------|--|
| 1 | Electric current | m ² V ⁻¹ s ⁻¹ |
| 2 | Charge | Am ⁻² |
| 3 | Voltage, Potential difference | s |
| 4 | Electromotive force | ms ⁻¹ |
| 5 | Resistance | Vm ⁻¹ |
| 6 | Resistivity | S |
| 7 | Electrical Conductivity | Ωm |
| 8 | Electric Field | Ω |
| 9 | Relaxation Time | V |
| 10 | Current density | V |
| 11 | Mobility | C |

12 Drift speed

 $[M^{-1}L^{-3}T^3A^2]$

Match the following

Part-A

- 1 Voltage, Potential difference
- 2 Electromotive force
- 3 Electric field
- 4 Current density
- 5 Mobility
- 6 Drift speed

Part-B

Page: 126

 V_d/E

Current/Area

Electric force/ Charge

 $V_d = eE\tau/m$ W/Q W/Q