

# CUET PCM Advanced Notes + PYQs

Advanced notes · Class 12 NCERT · 20 previous-year pattern MCQs solved · CUET UG

## CUET PCM: what to focus on

★ CUET UG domain paper: 50 compulsory MCQs, 60 minutes, +5 for a correct answer, −1 for a wrong answer, 0 if left blank. Questions are based on the NCERT Class 12 syllabus. You can take up to 5 papers in total.

CUET rewards speed and accuracy. Most questions are direct NCERT applications: one formula, one step. Learn the standard results below so that you can solve each question in about a minute.

### 1. Physics: shortcuts that save time

| Situation                                          | Shortcut / result                                                                                        |
|----------------------------------------------------|----------------------------------------------------------------------------------------------------------|
| n identical resistors R                            | Series: $nR$ · Parallel: $R/n$                                                                           |
| Wire stretched to n times its length               | New resistance = $n^2R$ (volume stays the same)                                                          |
| Charge on a capacitor in series                    | Same charge on each; voltage divides in inverse ratio of C                                               |
| Two parallel wires, currents in the same direction | They attract; opposite directions repel                                                                  |
| Force on a charge moving parallel to B             | Zero, because $\sin 0^\circ = 0$                                                                         |
| Pure inductor / capacitor in AC                    | Average power = 0 (power factor $\cos \phi = 0$ )                                                        |
| Power factor at resonance (series LCR)             | $\cos \phi = 1$ , $Z = R$ , current is maximum                                                           |
| Lenses in contact                                  | $P = P_1 + P_2$ ; $1/f = 1/f_1 + 1/f_2$                                                                  |
| Stopping potential                                 | $eV_0 = h\nu - \phi_0$ (does not depend on intensity)                                                    |
| Hydrogen spectrum                                  | Lyman $\rightarrow n = 1$ (UV) · Balmer $\rightarrow n = 2$ (visible) · Paschen $\rightarrow n = 3$ (IR) |
| After n half-lives                                 | Remaining fraction = $(1/2)^n$                                                                           |

## That was a preview.

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PREVIEW