

PYQSide

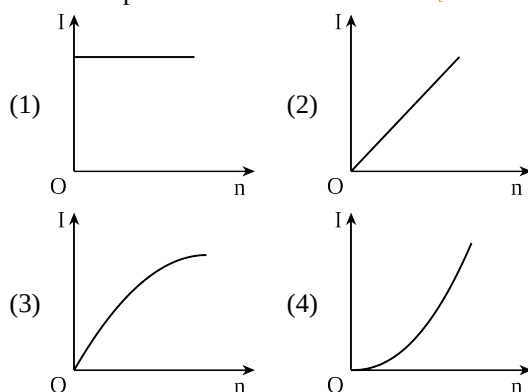
NEET CURRENT ELECTRICITY — CELLS IN SERIES AND PARALLEL — PYQS

Max. Marks: 12

Questions: 3

Section A (MCQ)

- Q.1** A battery consists of a variable number n of identical cells (having internal resistance r each) which are connected in series. The terminals of the battery are short-circuited and the current I is measured. Which of the graphs shows the correct relationship between I and n ? [NEET 2018]



Scan or tap for the full solution



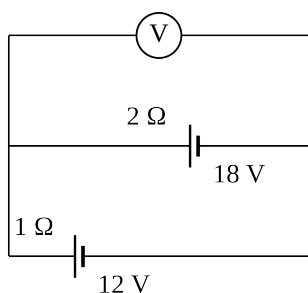
- Q.2** Two cells, having the same e.m.f. are connected in series through an external resistance R . Cells have internal resistances r_1 and r_2 ($r_1 > r_2$) respectively. When the circuit is closed, the potential difference across the first cell is zero. The value of R is [AIPMT 2006]

- (1) $r_1 + r_2$ (2) $r_1 - r_2$ (3) $\frac{r_1 + r_2}{2}$ (4) $\frac{r_1 - r_2}{2}$

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- Q.3** Two batteries, one of emf 18 volts and internal resistance $2\ \Omega$ and the other of emf 12 volts and internal resistance $1\ \Omega$, are connected as shown. The voltmeter V will record a reading of [AIPMT 2005]



- (1) 30 volt (2) 18 volt (3) 15 volt (4) 14 volt

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ANSWER KEY

Ques.	1	2	3										
Ans.	1	2	4										