

CLASS: 12	INDIAN SCHOOL MUSCAT SECOND PERIODIC ASSESSMENT	SUBJECT: PHYSICS
	SET - B	
Q.NO.	VALUE POINTS	SPLIT UP MARKS
1.	Capacitance decreases Using $U = \frac{1}{2} CV^2$ So stored energy in capacitor decreases	$\frac{1}{2}$, $\frac{1}{2}$
2.	Definition electrical conductance of a conductor and its SI unit.	$\frac{1}{2}$, $\frac{1}{2}$
3.	In Si , the resistivity increases In Cu , the resistivity decreases	$\frac{1}{2}$, $\frac{1}{2}$
4.	Definition of capacitance , No unit	1
5.	Definition of dielectric strength of a dielectric	1
6.	derivation of $U = \frac{1}{2} C V^2$ diagram derivation	$\frac{1}{2}$ $1\frac{1}{2}$
7.	Using $V = E_{eq} - Ir_{eq}$ $E_{eq} = 6V$, emf of each cell = 2V $r_{eq} = 6\Omega$, internal resistance of each cell = 2Ω	1 1
8.	$I_X = I_Y$ $n_x eAv_x = n_Y eAv_y$ $v_x/v_y = 1/2$	1 1
9.	Derivation of $v_d = eV\tau/ml$	3
10.	Derivation of E_{eq} and r_{eq} in parallel combination of cells	2,1
11.	$C_x = 5 \mu F$ and $C_y = 20 \mu F$ $V_x = 12 V$ and $V_y = 3V$	2 1