Exercise MCQs

Sr. No.	Questions	A	В	C	D
1	An electric current in conductors is due to the flow of	positive ions	negative ions	positive charges	√free electrons
2	What is the voltage across a 6Ω resistor when $3A$ of current passes through it?	2 V	9 V	✓18 V	36 V
3	What happens to the intensity or the brightness of the lamps connected in series as more and more lamps are added?	Increases	√decreases	remains the same	ca no be
4	Why should household appliances be connected in parallel with the voltage source?	to increase the resistance of the circuit	to decrease the resistance of the circuit	√to provide each appliance the same voltage as the power source	to provide each appliance t same curre as the pow source
5	Electric potential and e.m.f	are the same terms	✓ are the different terms	have different units	both (B) ar (C)
6	When we double the voltage in a simple electric circuit, we double the	√current	power	resistance	both (a) ar (b)
7	If we double both the current and the voltage in a circuit while keeping its resistance constant, the power	remains unchanged	halves	doubles	✓ Quadrupl OR becom four time
8	What is the power rating of a lamp connected to a 12 V source when it carries 2.5 A?	4.8 W	14.5 W	✓30 W	60 W
9	The combined resistance of two identical resistors, connected in series is 8Ω . Their combined resistance in a parallel arrangement will be	2 Ω	√ 4Ω	8 Ω	12 Ω

Prepared By: M. Tayyab, SSE(Math) Govt Christian High School, Daska.

Website: https://hira-science-academy.github.io

Additional MCQs

1	Formula of current is	I = Qt	$\checkmark I = \frac{Q}{t}$	$I = \frac{t}{0}$	All of these
2	SI unit of current is	Coulomb	√ Ampere	Volt	Farad
3	The unit of potential difference is	Joule	Coulomb	Farad	√Volt
4	Formula of e. m. f	$E = \frac{J}{Q}$	$E = \frac{W}{I}$	$\checkmark E = \frac{W}{Q}$	$E = \frac{W}{Q}$
5	The unit of e.m.f in SI system is equal to	J	Jm ⁻¹	JS ⁻¹	✓JC ⁻¹ OR (vot)
6	An ideal volt meter has resistance	Very low	✓ Very large	Low	Zero
7	Specific resistance of copper is	$1.7 \times 10^{-8} \ \Omega \mathrm{m}$	\checkmark 1.69 × 10 ⁻⁸ Ωm	$100 \times 10^{-8} \Omega \text{m}$	$3500 \times 10^{-8} \Omega$
8	Specific resistance of silver is	\checkmark 1.7 × 10 ⁻⁸ Ω m	$1.69 \times 10^{-8} \ \Omega m$	$100 \times 10^{-8} \Omega \mathrm{m}$	$3500 \times 10^{-8} \Omega$
9	Specific resistance of aluminium is	\checkmark 2.75 × 10 ⁻⁸ Ωm	$5.25 \times 10^{-8} \ \Omega m$	$9.8 \times 10^{-8} \Omega \mathrm{m}$	$10.6 \times 10^{-8} \Omega$
10	Unit of resistance is	F(Farad)	C(Coulomb)	√Ω(Ohm)	V(Volt)
11	When resistances are connected in series, the current passing through them is	Different	Zero	Same	None
13	Which one is OHMIC in nature?	Thermister	Filament lamp	Fixed resistor	Variable resist
14	Mathematical form of joule's law	$W = I^2Rt$	\checkmark W = IK ² t	$W = I^2 R^2 t$	W = IRt
15	Which one is not true for power?	$P = I^2 R$	PO t	✓P = IR	P = IV
16	The unit of electric power is	Ampere	Joule	✓Watt	Volt
17	1kWh is equal to	3 MJ	✓3.6 MJ	2 MJ	2.6 MJ
18	SI unit of electric power is	1 W = 1s	\checkmark 1 W = Js ⁻¹	$1 \text{ W} = J^{-1} s^{-1}$	$1 \text{ W} = \text{J}^{-1}$
19	Potential of neutral wire	✓0 V	1 V	100 V	220 V
20	An ideal ammeter has resistance	Very low	Very large	Low	√Zero
21	Two resistances $6 \text{ k}\Omega$ and $12 \text{k}\Omega$ are connected in parallel across a 6 V battery. The potential difference across $6 \text{ k}\Omega$ resistance isvolts.	2	4	6√	12
22	A 100 Watt bulb is conjected to 250 V supply the current flowing through the bulb is	0.4 A✓	2.5 A	4.8	14.5 A
23	The equivalent resistance of two resistor of $6k\Omega$ and $4k\Omega$ are connected in series across $10V$ abttery	√10 kΩ	2 kΩ	$\frac{12}{5}$ k Ω	$\frac{5}{12} \text{ k}\Omega$

Prepared By: M. Tayyab, SSE(Math) Govt Christian High School, Daska. Website: https://hira-science-academy.github.io