CLASS	S: X NCERT (CBSE)	<b>-</b>	PHYSICS: For Class 10	Page: 1	
		ELECTRICITY			
	Multi	ple Choice QU	ESTIONS		
Question 1:	Which of the following statemen	ts does not represe	nt ohm's law?		
	1. current /	/ potential differenc	e = constant		
	2. potentia	l difference / currer	nt = constant		
	3. potentia	l difference = curre	nt x resistance		
	4. current =	= resistance x poten	tial difference		
				Answer:	4
Question 2:	The unit of current is	·			
		1. ampere			
		2. watt			
		3. volt			
		4. coulomb			
Question 3:	The potential difference required	d to pass a current 0	.2 A in a wire of resistance 20W is	Answer:	1
•		·		<del></del>	
		1. 100 V			
		2. 4 V			
		301 V			
		4. 40 V		Angwari	2
Question 4:	The resistance of an electric bulb	drawing 1.2 A curre	ent at 6.0 V is	Answer:	2
		1. 0 .5 W			
		2. 5 W			
		3. 0.2 W			
		4. 2 W			
				Answer:	2
Question 5:	The unit of resistivity is	·			
		1. ohm			
		2. ohm / m			
		3. ohm-m			
		4. mho			
				Answer:	3
Question 6:	Two resistances of 100 W and zero ohm are connected in parallel. The overall resistance will be			:e	
		1. 100 W			
		2. 50 W			
		3. 25 W			
		4. zero ohm			
		2,		Answer:	1

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## **ELECTRICITY**

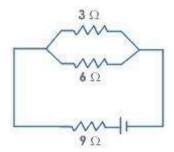
Question 7: Three resistors 2 W, 3 W and 4 W are connected so that the equivalent resistance is 9 W.

The resistors are connected \_\_\_\_\_\_.

- 1. all in series
- 2. all in parallel
- 3. 2 W and 3 W in parallel and the combination in series with 4 W
- 4. 2 W and 3 W in series and the combination in parallel to 4 W

Answer: 1

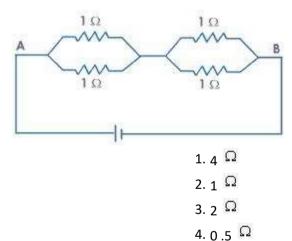
Question 8: In the figure,



- 1. 6 W, 3 W and 9 W are in series
- 2. 9 W and 6 W are in parallel and the combination is in series with 3 W
- 3. 3 W, 6 W and W are in parallel
- 4. 3 W, 6 W are in parallel and 9 W is in series

Answer: 4

Question 9: The resistance across AB is



Answer: 2

Question 10: When a current 'I' flows through a resistance 'R' for time 't' the electrical energy spent is given by \_\_\_\_\_\_.

- 1. I R t
- 2. I<sup>2</sup> R t
- $3. IR^2 t$
- $4.1^2 R/t$

Answer: 2

CLASS	S: X NCERT (CBSE) E	LECTRICITY	PHYSICS: For Class 10	Page:3	
Question 11:	Kilowatt - hour is the unit of				
•					
	1. po	tential differen	ce		
		ectric power			
		ectrical energy			
	4. ch	arge		Answer:	3
Question 12:	When a fuse is rated 8 A, it means	·			
	1. it will not wo	rk if current is I	ess than 8 A		
	2. it has a resist	ance of 8 W			
	3. it will work o	nly if current is	8 A		
	4. it will melt if	-			
				Answer:	4
Question 13:	The device used for measuring potent	ial difference is	known as		
	1.	potentiometer			
	2.	ammeter			
	3.	galvanometer			
	4.	voltmeter			
Question 14:	•	ve charge acros	s two points in an electric circuit is	Answer:	4
	measure of				
	1. cu				
	·	tential differen	ce		
		sistance			
	4. po	wer		Answer:	2
Question 15:	The potential at a point is 20 V. The wo	ork done to brii	ng a charge of 0.5 C from infinity to		_
		1. 20 J			
		2. 10 J			
		3. 5 J			
		4. 40 J			
				Answer:	2
Question 16:	Joule / Coulomb is same as	·			
		1. watt			
		2. volt			
		3. ampere			
		4. ohm		_	_
				Answer:	2

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CLASS	S: X NCERT (CBSE)	PHYSICS: For Class 10	Page: 4	
Overtion 17:	ELECTI	RICITY		
Question 17:	The free electrons of a metal  1. do not collide with a	· each other		
	2. are free to escape t			
	3. are free to escape to	•		
	4. are free to move an			
	4. are nee to move an	ywhere in the metal	Answer:	4
Question 18:	The path of a free electron in a metal is		Allswei.	7
	1. parabo			
	2. circula	r		
	3. a strai	ght line		
	4. zig zag			
			Answer:	4
Question 19:	Heat produced in a current carrying wire in 5	•	ţh	
	another wire of half the resistance. The heat			
	1. 60			
	2. 30			
	3. 15			
	4. 12	.0 )	Ancwari	2
Question 20:	The current in a wire		Answer:	2
	1. depends only on the potent	ial difference applied		
	2. depends only on the resista	nce of the wire		
	3. depends on both resistance	and potential difference		
	4. does not depend on resista	nce and potential difference		
			Answer:	3
Question 21:	When there is an electric current passing thro		·	
	1. elec	trons		
	2. prot	ons		
	3. aton			
	4. ions			
Question 22:	A positive charge released from rest		Answer:	1
Question 22.	1. moves towards the reg			
	2. moves towards the reg	•		
	3. moves towards the reg			
	4. does not move	ions of equal potential		
	ii does not move		Answer:	1
Question 23:	Three equal resistances when combined in seresistance when combined in parallel will be			_
	1. 270			
	2. 30			
	3. 810			
	4. 10			
	10			
			Answer:	4

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CLASS	5: X NCERT (CBSE) PHYSICS: FOR CLASS 10  ELECTRICITY	PAGE:5	
	ELECTRICITY		
Question 24:	An battery is used to		
	1. maintain a potential difference		
	2. measure electric current		
	3. measure electric potential		
	4. safeguard against short - circuit	_	_
Question 25:	Ohm's law relates potential difference with	Answer:	1
Question 25.	1. power		
	2. energy		
	3. current		
	4. time		
		Answer:	3
Question 26:	Which of the following is an ohmic resistor?		
	1. Diode		
	2. Germanium		
	3. Nichrome		
	4. Diamond	A	2
Question 27:	The resistivity of a wire depends on	Answer:	3
Q	1. length		
	2. material		
	3. area of cross- section		
	4. length, material and area of cross-section		
		Answer:	4
Question 28:	For which of the following substances, resistance decreases with temperature?		
	1. Copper		
	2. Platinum		
	3. Mercury		
	4. Carbon	Анаман	1
Question 29:	Four cells each of e.m.f 'E' are joined in parallel to form a battery. The equivalent e.m.f	Answer:	4
•	the battery will be		
	1. 4 E		
	2. E		
	3. E / 4		
	4. E = 0		
Overtion 20.	Two cleaters bulbs have recistored in the nation 1/2 lf they are injusted in coving the angular	Answer:	2
Question 30:	Two electric bulbs have resistances in the ratio 1:2. If they are joined in series, the energe consumed in them are in the ratio	39	
	1. 1:2		
	2. 2:1		
	3. 4:1		
	4. 1:1		
		Answer:	2