

CLASS X SAMPLE PAPER **SCIENCE**

MULTIPLE CHOICE QUESTIONS

1.	The I	Magn	intude of cha	rge on electro	on 1s
			10		

- $2.6 \times 10^{-19} \text{ C}$ 4 x 10⁻¹⁹ C 1.6 x 10⁻¹⁹ C (b) (a) 1.6 x 10⁺¹⁹ C (c) (d)
- 2. 1 Coulomb charge is equivalent to
 - 6×10^{15} electrons 6×10^{18} electrons $6 \ge 10^{17}$ electrons (a) (b) 1 electron
 - (c) (d)
- 3. 1 volt =
 - 1 joule / coulomb (a)
 - 1coulomb/joule (b)
 - $1 \text{ joule/coulomb}^2$ (c)
 - 1joule/coulomb (d)
- 4. Unit of electric potential is
 - ampere (a) (b) volt
 - Coulomb (c) (d) joule
- 5. Work done to move a charge from one point to another of a conductor is
 - Electric potential (a)
 - (b) potential difference
 - electric field (c)
 - (d) electric current
- 6. Unit of electric current is

(a) joule	(b)	coulomb
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- (c) ohm (d) ohm
- 7. Unit of resistance is
 - coulomb (a) (b) ampere (c)
 - volt (d) ohm

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- 8. Resistance of metallic conductor
 - (a) increases with the increase in temperature
 - (b) increases with the decrease in temperature
 - (c) decreases with the increase in temperature
 - (d) none of these
- 9. Resistance of a conductor varies
 - (a) inversely proportional to its length
 - (b) inversely proportional to square of its length
 - (c) directly proportional to its length
 - (d) directly proportional to square of its length
- 10. Resistivity of a conductor
 - (a) increases with the increase of its area
 - (b) increases with the increase of its length
 - (c) decreases with the decrease of its length
 - (d) is independent of the change in its area and length
- 11. Two resistances Ω and 2Ω are connected in series and then in parallel. The ratio of the effective resistance of series and parallel combination of resistance is
 - (a) 2:9 (b) 9:2
 - (c) 3:1 (d) 1:2
- 12. A wire of resistance R is cut into five equal pieces. These pieces are connected in parallel and the equivalent resistance of the combination is 'R'. Then the ratio R/R' is
 - (a) $\frac{1}{5}$ (b) 5 (c) $\frac{1}{25}$ (d) 25
- 13. Which of the following expressions does not represent the electric power in the circuit?
 - (a) VI (b) $\frac{I^2}{R}$ (c) $\frac{V^2}{R}$ (d) I^2R
- 14. An electric heater is rated 100W and 220V. If it is operated on 110V, the power consumption will be :

(a)	10W	(b)	25W
(c)	15W	(d)	100W

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15.	Elect	ric power is given by		
	(a)	V/I	(b)	I/V
	(c)	VI	(d)	V^2I
16.	Whic	ch is not the unit of ene	ergy?	
	(a)	joule	(b)	kWh
	(c)	kWs	(d)	kW
17.	Work charg	done to move 1 could ded conductor having j	omb cha ootential	rge from one point to another point on a 10Volt is
	(a)	1 joule	(b)	10 joule
	(c)	zero	(d)	100 joule
18.	15 jo poter	ule of work is done to ntial at that point is	bring 1	coulomb charged from infinity to a point. The
	(a)	zero	(b)	10 V
	(c)	15 V	(d)	1/30 V

- 19. A current of 0.5 A passes through a conductor in 2s. How many electrons flow through the conductor from its one end to the other end during this interval of time?
 - (a)
 - 6×10^{18} electrons 0.6×10^{18} electrons (b)
 - 6.52×10^{18} electrons (c)
 - 6.25×10^{18} electrons (d)
- 20. The resistance of a conductor is R. If its length is doubled, then its new resistance will be
 - (a) R (b) 2R
 - 4R (c) (d) 8R
- 21. Manganin is an alloy of
 - copper and nickel (a)
 - (b) copper and manganese
 - (c) copper, manganese and nickel
 - copper, manganese and aluminium (d)
- If the length a conductor having resistivity 1.5×10^{-8} ohm-m is doubled, its new 22. Resistivity will be
 - 2.0 x 10⁻⁸ ohm-m (a)
 - 1.5×10^{-8} ohm-m (b)
 - 6.6 x 10⁻⁸ ohm-m (c)
 - 1 x 10⁻⁸ ohm-m (d)

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- Calculate the length of aluminium wire of area of cross-section 1 mm² whose 23. resistance is $1.56 \ge 10^{-2}$ ohm. Given resistivity of aluminium is $2.6 \ge 10^{-8}$ ohm-m.
 - 60 mm 60 cm (a) (b) 60 m (c)
 - (d) 6 m
- 24. Two conductors each of resistance R Ohm are connected in series and then in parallel. Find the ration of the resistance of the combination in series and in parallel.
 - (a) 1 (b) 2
 - (c) 4 (d) 6
- 25. A conductor of resistance 10Ω is connected to a cell of e.m.f. 2V. The current flowing through the conductor is
 - (a) 2 A 0.2A (b)
 - (c) 20 A (d) 5 A
- 26. A current of 0.1A flows through a conductor of resistance 10 Ω . The potential difference across the ends of the conductor is
 - 10 V (b) 100 V (a) (c) 1V (d) 0.1V
- 27. The amount of heat produced in a conductor is
 - directly proportional to the current flowing though it. (a)
 - inversely proportional to the current flowing through it. (b)
 - directly proportional to the square of the current flowing through it (c)
 - (d) inversely proportional to the square of current flowing through it.

28. 1 horse power is equal to

	1	1		
(a)	700 W		(b)	726 W
(c)	736 W		(d)	746 W

29. The amount of heat energy produced in 5 minutes by an electric heater rated at 1000 W is

(a)	2 x 10 ⁵ J	(b)	3 x 10 ⁵ J
(c)	4 x 10 ⁵ J	(d)	300 J

30. The power of a source of energy producing 600 J energy in 30 s is

- 1800 W (b) 200 W (a)
- 100 W 20 W (c) (d)
- 31. The unit of electrical energy is

(a)	Watt	(b)	horse power
(c)	kWh	(d)	kW

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32. An electric bulb is rated 100W when used on 200 V main supply. The resistance of the bulb is

- (a) 200 ohm (b) 300 ohm
- (c) 400 ohm (d) 20000 ohm

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