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Name:		Roll No.		Subject	Physics	
Test Type	MSQs, Short & Long Questions	Class	12 th	Date		
Chapter	13 Start to before Electrical Power	Unit	13	Time		

Q. No.	1 Tick the best opt	ion		22			
1.	During electrolysis process, density of CuSO ₄ solution:						
	(a) Increased	(b) Decreased	(c) Remains constant	(d) None of these			
2.	The magnitude of the d	rift velocity is of the ord	er of:				
	(a) 10^{-3} m/s	(b) 10^{-4} m/s	(c) 10^{-6} m/s	(d) 10^3 m/s			
3.	The potential difference between the head and tail of an eel is:						
1. 2.	and tail can be up to:						
	(a) 220 V	(b) 440 V	(c) 600 V	(d) 660 V			
4	Heat generated by a 40	Approximation of post	(3)				
•	(a) 140 J	(b) 1440 J	(c) 14400 J	(d) 144000 J			
5.	Cells converts int		(6) 11100 0	(a) 111000 t			
			(c) Mechanical energy	(d) Heat energy			
6.				r maximum resistance will be:			
6070.75	(a) 400Ω	(b) 450 Ω	(c) 600 Ω	(d) 550 Ω			
7.				tance or resistivity of a material?			
	(a) ohm-m	(b) K	(c) K ⁻¹	(d) ohm-K			
8.		is commercial unit of el					
	(a) Watt	(b) Kilowatt	(c) Kilowatt hour	(d) Horse power			
9.		2 resistance with 5% tole		(a)			
10.	(a) Black, Black, Brown		(b) Brown, Black, Brown	vn, Silver			
	(c) Brown, Black, Black	CONTRACTOR	(d) Brown, Black, Brow				
10.				nce between any two terminals is:			
	(a) 12 Ω	(b) 8 Ω	(c) 0.75Ω	(d) 2.7 Ω			
11.		Secretary Company of the Company of		for measuring low temperature:			
	(a) 10 K	(b) 20 K	(c) 30 K	(d) 40 K			
12.	If a wire is stretched to	double its original lengtl	n, resistance becomes:	20.20			
	(a) 2-times	(b) 4-times	(c) 1/4 -times	(d) ½ -times			
13.	Resistance of a meter c	ube of the substance is ca					
	(a) Conductivity	(b) Permittivity	(c) Resistivity	(d) Susceptibility			
14	Resistivity of the Coppe		(1) 1111111111	(a) succeptionity			
14.	(a) $1.54 \times 10^{-8} \Omega \text{m}$		(c) $3.5 \times 10^{-5} \Omega m$	(d) 0.5 Ωm			
15				nected in a circuit, it is to be used as:			
15.		(b) Variable resistor		(d) None of these			
16	5.7		(c) Power supply	(d) None of these			
16.	A zero-ohm resistor ind		() 0: -1-11-1	(D G: 1- G			
17	(a) Single blue		(c) Single black				
17.			ait at constant rate in 16 s				
10	(a) 2 A	(b) 2.5 A	(c) 80 A	(d) 800 A			
18.	The SI unit of conducta		/ \ II	(DD 4 A 0 D			
10	(a) Ω^{-1}	(b) Siemen	(c) Henry	(d) Both A & B			
19.			ross-section is doubled a	nd length is halved then the			
	resistivity of the materi	al is:					
	(a) 4 ρ	(b) 2ρ	(c) $\rho/4$	(d) ρ			
20.	In order to have a const	ant current through a win	re, the potential difference	e across its ends should be:			
	(a) Increasing	(b) Decreasing	(c) Maintained constant	t (d) Zero			
21.		~ · · ·		icle of some cheap metal is called:			
	(a) Electrolysis	(b) Electromagnetism	(c) Electroplating	(d) Doping			
22.	Slope of IV-graph is nu		and 00000000000 € 770000000 € 7	and continues of ♣ therefore			
	(a) Capacitance	$(b)\frac{1}{\text{resistance}}$	(c) Resistance	(d) Reactance			



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Q. No. 2 Write the short answer of these following questions

 $5 \times 2 = 10$

- 1) Differentiate between conventional and electronic current.
- 2) Define resistivity, its mathematical form.
- 3) What is temperature co-efficient of resistivity and its formula?
- 4) How Rheostat can be used as a potential divider?
- 5) What is Thermistor, its types and write two uses.

Q. No. 3 Long question

05

1) Sate and Explain Ohm's law. Differentiate between Ohmic and Non-ohmic substances with the help of graph.

