JSUNIL TUTORIAL, SAMASTIPUR, BIHAR CLASS- X

SUBJECT - SCIENCE (ELECTRICITY)

1.How are diffe	rent electric appli	ances connected in a ho	ouse?(1)
2.What is the re	esistance of an ide	eal ammeter?	
3.A wire of resi resistance?	stivity rho is streto	ched to double its length	. What will be its new
resistance:			
4.What is the la	aw of combination	of resistances in paralle	el ?
5.What is the o	ther name of elec	tric potential?	
6.Give the sym	bol of fixed resist	ance and variable resista	ance.
7.Define the un	nit of resistance.		
8.1 m V is equa	al to		
(a) 1 volt (b) 1000 volt	(c) 1/1000 volt	(d)1/10000 volt
9.The equivale	nt resistance betw	een A and B is	
(a)1 ohm (b) 2 ohm	(c) 1.5 ohm	(d) 6 ohm
10.Which of the	e following charge	is not possible?	
(a) 1.6 x 10 C	(b) 0.2 x10 C	(c) 0.35 x 10 C	(d) 0.1 x1.6 x10
11.What happe	ens if the pd acros	s a resistance is double	d?
12.On what fac	tors does resistivi	ty of material depend?	

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- 13. Name two special characteristics of heater coil.
- 14. 10 electrons are removed from a neutral body. The charge acquired by a body is
- (a) 1.6 x 10 C(B)1.6 X 10 C

(C) -1.6 X10 C

(d)

10 C

- 15. Why resistance is less in parallel combination?(1)
- 16. State and derive ohm,s law.(2)
- 17. What is the cause of resistance?(2)
- 18. Differentiate between resistor and resistance.(2)
- 19. Calculate the energy consumed in 20 days, if two bulbs of 30 w work for 6 hrs, three fans of 80 w work for 10 hrs daily and one tube of 60 w works for 3 hrs daily.(3)
- 20. Calculate the equivalent resistance in the given circuit(3)
- 21. Which is better series combination or parallel combination in electric circuit and why?(3)
- 22. What do you mean by the potential difference? Write and define its unit.(3)
- 23. Calculate the potential difference, if there are 5000 charge carrier are flowing for 10 min through a resistance of 100 ohm. (3)
- 24. Calculate the ratio of series to parallel combination if there are n number of resistances. (3)
- 25. What will be the new resistance if a wire of resistance 80 ohm is bent into a circular form?(1)