



SCIENCE

QUESTION PAPER OF CLASS IX

All questions are compulsory

T.M – 60

Questions 1-4 carry 1 mark each

Time :- 2hr.

Questions 5-9 carry 2 mark each

Questions 11-17 carry 3 mark each

Questions 18-21 carry 5 mark each

Q.1. What happens when electricity is passed through acidified solution of water?

Q.2. Give two reasons for the fact that we do not connect a bulb and a heater in series.

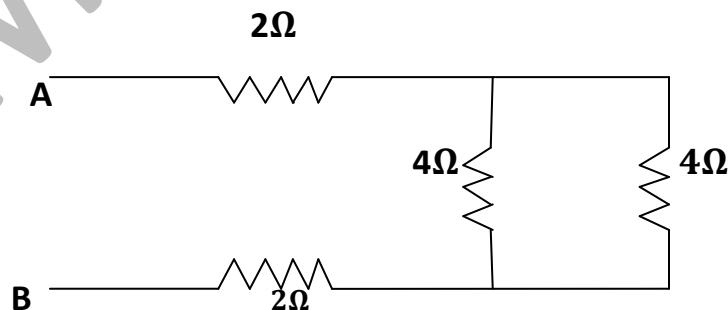
Q.3. Why does milk become sour if kept for a long time?

Q.4. In what situation do we use Fleming's right hand rule?

Q.5. What is meant by the term 'Magnetic field lines' ? List any two properties of magnetic field lines.

Q.6. What is the function of earth wire? Why is it necessary to earth the metallic appliance?

Q.7.





Calculate the net resistance between A and B

Q.8. How can three resistors of resistance 2,3, and 6Ω be connected to give total resistance of (a) 4Ω and (b) 1Ω ?

Q.9. Balance the following equation (i) $\text{Pb}(\text{NO}_3)_2 + \text{Fe}_2(\text{SO}_4)_3 \longrightarrow \text{Fe}(\text{NO}_3)_3 + \text{PbSO}_4$

(ii) $\text{MnO}_2 + \text{HCl} \longrightarrow \text{MnCl}_2 + \text{Cl}_2 + \text{H}_2\text{O}$

Q.10. Write two observations you would make when quicklime is added to water.

Q.11. What is the chemical formula of bleaching powder? How will you prepare it in lab? Give eqⁿ for chemical r^{xn} involved. Give two uses of it.

Q.12. Demonstrate by an experiment change in crystalline copper sulphate on heating. Explain the meaning of crystallization.

Q.13. (a) What happen when lead nitrate is heated? (b) silver nitrate soluⁿ react with sodium chloride solution (c) Give eqⁿ for chemical R^{xn} involved and also mention tyoes of R^{xn}.

Q.14. What happen zinc metal is dipped in coppersulphate solution? Gve the chemical reaction involved. State which is more reactive Zinc or copper?

Q.15. (a) State Ohm's law (b) Draw a schematic diagram or the circuit for studying Ohm's law.

(c) Define the unit of resistance.

Q.16 calculate total reisitance and current in the circuit.



Q.16. Why does electric current generate heat in a conductor ? write all the factors on which heat produced due to electric current depends.

Q.17. What is the reaction for force experienced by a current carrying straight conductor placed in a magnetic field? Under what condition is this force maximum?

Q.18. (a) Write three advantages of AC over DC.

(b) What is the frequency of A.C in India?

(c) Name the device used to control the A.C in the circuit.

Q.19. Calculate the amount of electrical energy consumption for a month of 30 days in a household of 220V line with the following appliances being used

(a) 5 bulbs of 60W each for 6 hr. (b) Two 1000w heaters for 2 hr.

(c) 750W electric iron for 2 hr. (d) 100W refrigerator for 24 hr.

(e) 1100W microwave oven for 3hr.

The cost of first 200 unit is ₹ 2.40 and next 200 units is ₹ 4.80 per unit respectively.

Q.20. (a) What is electromagnetic induction? Write the rule that is used to find the direction of induced current.

(b) What is overloading? Why does a fuse wire melt on overloading

Q.21. (a) A solution of substance 'X' is used for testing carbon dioxide. Identify X. What will be its reaction with carbon dioxide. Write balance chemical eqⁿ for the reaction.



(b) Give an example of decomposition reaction carried out with the help of electricity.

(c) Differentiate between exothermic and endothermic reactions.

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