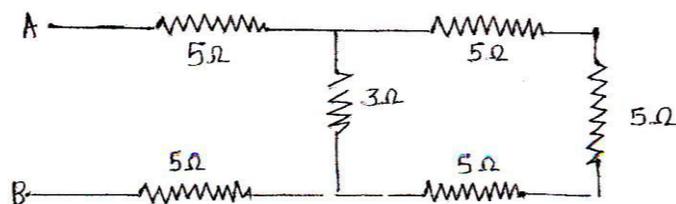




RAMAGYA SCHOOL, NOIDA
WORKHEET, 2017-2018
SUBJECT: SCIENCE
CLASS: X

MONTH: MAY

1. State the conditions on which resistance of a conductor depends.
2. State the condition under which electric charge can flow through a conductor.
3. A wire of resistance $4R$ is bent in the form of a circle. What is the effective resistance between the ends of diameter?
4. Is ohm's law a universal law? If not give example.
5. Will an electron in an electric field move towards higher potential or lower potential?
6. What is meant by the statements :
 - a) Potential at a point is 1 Volt
 - b) The potential difference between the points is 1 Volt
7. How will you maintain a potential difference between the ends of a conductor?
8. Give reasons for the following:
 - a) The resistance of a thicker wire of copper is much less than that of a thinner wire of copper of the same length.
 - b) For the same thickness of wires used we need a smaller length of a wire, made of an alloy, rather than a pure metal, for getting a resistance coil of a given value.
 - c) Electric lamp filaments are made from tungsten.
9. Calculate the resistance between A and B of the circuit shown



10. What happens when (give equation also).
- Potassium iodide solution is added to lead nitrate solution.
 - Dilute hydrochloric acid is added to zinc granules.
 - Water is added to quick lime.
 - Carbon-di-oxide gas passed through lime water.
11. When a green iron salt is heated strongly its colour finally changes to black and odour of burning sulphur is given out.
- Name the iron salt.
 - Name the type of reaction.
- Write the chemical equation for the reaction involved.
12. There are different types of chemical reactions occurring around us or being carried out for the benefit of mankind e.g. combustion reaction, decomposition reaction, redox and photochemical reaction.
- Now, answer the following questions:
- Combustion of coke is a combination reaction. CO_2 is not a pollutant. Then why is combustion of coke harmful?
 - What values have been added to our lives by electroplating? Give an example.
 - How photochemical reactions have played an important role in photography?
13. Name two antioxidants which are usually added to food containing fat and oil to prevent rancidity.
14. List the main steps of holozoic mode of nutrition.
15. With the help of diagrams, explain how nutrition takes place in amoeba.
16. Where does the process of digestion start in humans? What is digested here?
17. Which movement helps to push food forward in our gut? Describe it.
18. Bile juice has no digestive enzyme, still it is considered very important. Why?
19. How are proteins carbohydrates and fats digested in our body?
20. Discuss the role of valves in maintaining blood flow.
21. Name the valve present between
- Left atrium and left ventricle
 - Right atrium and right ventricle
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