

CBSE Class 10 Science Sample Paper SA 1 Set 2

SCIENCE
CLASS X
Summative Assessment I

Max Marks:80

Time : 3hrs

General Instructions

- (i) The question paper comprises of two sections-section A and Section B
- (ii) All questions are compulsory.
- (iii) Question numbers 1 to 4 in Section A are 1 mark questions. Answer in a word or sentence
- (iv) Question Numbers 5 to 13 are 2 mark questions, to be answered in about 30 words each.
- (v) Question numbers 14 to 22 are 3 mark questions, to be answered in about 70 words each.
- (vi) Question numbers 26 to 41 in Section B are multiple choice questions. Each question carries 1 mark. Write the most appropriate answer.

SECTION A

- 1) Give the SI unit of resistivity
- 2) Name the most reactive metal in the reactivity series.
- 3) What is the role of acid in our stomach?
- 4) Name the enzyme present in saliva.
- 5) Define Ohms Law.
- 6) Suggest two methods to prevent rancidity.
- 7) Why is parallel connection preferred in the domestic supply of electric current?
- 8) How are fats digested in our body? Where does this process take place?
- 9) Give the balanced chemical equation for the following reactions:
 - (a) Calcium Hydroxide + Carbon dioxide \rightarrow Calcium carbonate + Water.
 - (b) Magnesium + oxygen \rightarrow Magnesium oxide.
- 10) What are alloys?
- 11) Why is sodium kept in kerosene?
- 12) Which gas is produced when dilute hydrochloric acid is added to a reactive metal? Write the chemical equation when iron reacts with dilute H_2SO_4 .
- 13) How is Oxygen transported in human beings?
- 14) Give three different pathways for the breakdown of Glucose.
- 15) On what factors does the resistance of a conductor depend? Show how these factors are related to the resistance?
- 16) What are the general physical properties of Metals?
- 17) Describe the structure and functioning of nephrons?
- 18) List the properties of magnetic lines of force.
- 19) Give any three disadvantages of fossil fuels.
- 20) What is resistivity? Why do we use alloys rather than pure metals to make electric toasters and electric irons?
- 21) Distinguish between renewable and non-renewable sources of energy.
- 22) State Fleming's Left hand Rule. Give two safety measures commonly used in electric circuits.
- 23) Draw and label a neuron. Explain how it carries messages.
- 24) (a) How is bleaching powder prepared? Give any two uses of it.
(b) Write two examples of water of crystallization.
- 25) (a) How can three resistors of resistances 2Ω , 3Ω and 6Ω be connected to give a total resistance of (a) 4Ω (b) 1Ω ?

- (c) Draw a schematic diagram of a circuit consisting of a battery of 3 cells of 2V each, a $5\ \Omega$ resistor, an $8\ \Omega$ resistor, a $12\ \Omega$ resistor and a plug key all connected in series.

SECTION B

- 26) In series connection the total resistance
(a) Decreases (b) Increases (c) May decrease/increase (d) None of these
- 27) The magnetic effect of current was discovered by
(a) Maxwell (b) Fleming (c) Oersted (d) Faraday
- 28) The device used for producing electric current is called
(a) A generator (b) a Galvanometer (c) a ammeter (d) Motor
- 29) The main constituent of petroleum gas is
(a) Methane (b) Ethane (c) Butane (d) Propane
- 30) The process of digestion of food in human beings begins in
(a) Stomach (b) Food pipe (c) Mouth (d) small intestine
- 31) The process of carrying food from the leaf to other parts of a plant is called
(a) Transpiration (b) Translocation (c) Tropic movement (d) None of these
- 32) The movement of a shoot towards light is
(a) Geotropism (b) Phototropism (c) Hydrotropism (d) Chemotropism
- 33) Acids have
(a) bitter taste (b) sweet taste (c) sour taste (d) sweet and sour taste
- 34) A metal which is a liquid at room temperature is
(a) Silver (b) Gold (c) Mercury (d) Sodium
- 35) A reaction in which a compound splits in to simpler substances is called
(a) Decomposition (b) Combination (c) double displacement (d) displacement
- 36) The metal which is not affecting the blue colour of copper sulphate solution is
(a) Silver (b) Zinc (c) Iron (d) Aluminium
- 37) In a circuit a voltmeter is always connected in
(a) Parallel (b) series (c) Parallel / Series (d) None of these
- 38) The magnetic field lines inside a current carrying solenoid are
(a) Parallel straight lines (b) curved (c) circular (d) none of these
- 39) The device used for testing the presence of electric current is
(a) Galvanometer (b) Voltmeter (c) Ammeter (d) None of the above
- 40) Which of the following is not a fossil fuel?
(a) Coal (b) petroleum (c) Natural gas (d) Fire wood
- 41) Bile is the secretion of
(a) Pancreas (b) Liver (c) Kidneys (d) Stomach