



CHEMISTRY

BOOKS - S CHAND CHEMISTRY

(HINGLISH)

MODEL TEST PAPER 1

Section A

1. What chemical substance is deposited in the secondary wall of sclerenchyma ?



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2. State the characteristic properties of:

(a) a solid (b) a liquid (c) a gas



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3. State three reasons why you think air is a mixture and water is a compound.



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4. Sodium carbonate reacts with ethanoic acid to form sodium ethanoate, carbon dioxide and water. In an experiment, 5.3g of sodium carbonate reacted with 6 g of ethanoic acid to form 8.2 g of sodium ethanoate, 2.2g of carbon dioxide and 0.9g of water. Show that this data verifies the law of conservation of mass.



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5. (a) What is a mixture? Give two examples of mixtures.

(b) What is meant by (i) homogeneous mixtures, and (ii) heterogeneous mixtures?

Give two examples of homogeneous mixtures and two of heterogeneous mixtures.



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6. (a) Describe Thomson's model of the atom.

Which subatomic particle was not present in

Thomson's model of the atom?

(b) The mass number of an element is 18. It contains 7 electrons. What is the number of protons and neutrons in it? What is the atomic number of the element?



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Section B

1. When a crystal of potassium permanganate is placed in a beaker, its purple colour spreads

throughout the water. What does this observation tell us about the nature of potassium permanganate and water?



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2. The ion of an element has 3 positive charges. Mass number of the atom is 27 and the number of neutrons is 14. What is the number of electrons in the ion?



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3. On holidays, Rahul used to go to morning walk with his grandfather and on the way he used to collect milk from milk man for his home. One day, the milkman told dadaji that he is going to purchase a Murrah breed buffalo as he is not able to fulfill the demand of his customers to supply good quality milk. Rahul asked his grandfather following questions:

(i) What are Murrah buffaloes ?

(ii) What are the advantages of keeping them in dairy ?



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