SARALA BIRLA ACADEMY BANGALORE

Half Yearly Examinations 2008– 2009

Science 2 (Chemistry)
Grade VII **(One and a half hours)** **Monday, 15-09-2008**

This is a QUESTION cum ANSWER script.
Use this booklet to answer your questions here.

Part A (40 marks)

(Short answer type questions; Answer **ALL**)

Question 1: Name the following: **[10]**

1. The common name of the element 'S' [……..]
2. The common name of 'C' [……..]
3. The common name of the element 'O' [……..]
4. The common name of the element 'Na' [……..]
5. The common name of the element 'H' [……..]
6. The common name of the element 'Cl [……..]
7. The common name of the element 'Ag' [……..]
8. The common name of the element 'Cu' [……..]
9. The common name of the element 'Au' [……..]
10. The common name of the element 'N' [……..]

Question 2: state true or false for the following: **[5]**

1. Water turning to steam is a physical change […….]
2. Exposure of iron to the moist atmosphere results in a chemical change. […….]
3. On addition of sodium to water hydrogen is evolved, so the change is physical

   […….]
4. The particles of matter in the solid state move about freely […….]
5. Gases are very slightly compressible […….]

Question 3: state which of the following is a physical and a chemical change [5]

1. Curdling of milk is _____
2. Photosynthesis by green plants is _____
3. Burning of wood is _____
4. Burning of candle is _____
5. Rusting of iron is _____

Question 4:

a) Match the column A with column B and write the correct answer in column C [5]

	Column A		**Column B**	**C**
1	Copper and iron dust mixture	A	Sublimation	
2	Salt and water mixture	B	Decantation	
3	Naphthalene dust with common salt	C	Magnetic separation	
4	Sand and water mixture	D	Separating funnel	
5	Oil and water	E	Evaporation	

b) Select the correct answer from A, B, C, D and E for each statement given below [5]

A. Sedimentation **B**. sulphur and zinc **C** sulphur **D** zinc sulphide **E** distillation

1. An example of a compound […….]
2. An example of a non-metallic element […….]
3. The method of separation of a soluble solid constituent from its liquid constituent […….]
4. An example of a mixture […….]
5. The method of separation of an insoluble solid constituent from its liquid constituent […….]

Question 5: Fill in the blanks: [10]

1. Both iodine, and naphthalene are substances that _____.
2. Husk of rice can be separated by _____ method of separation
3. A solvent can be easily removed from insoluble solute (like sand and water) by _____
4. _____ is a method by which a soluble salt is removed from it solvent to get pure solvent
5. The separation technique that allows any iron substance to be removed from its mixture is _____
6. The smallest part of element is _____
7. A charged element is called _____
8. A mixture of salt and sand can be separated by _____ method.
9. Groundnut and salt can be separated by _____ method
10. The process of converting a solid to a liquid is called _____

Part B (40marks)

Answer any FOUR from FIVE question (question number 6 to 10) given below

Question 6:

Give an example of

a) Filtration [2]

b) Evaporation [2]

Given example of two coloured gas [2]

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Given example of two pure substances, one element, and one compound [4]

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Question 7:

If a metal is ductile what do you mean by the word 'ductile'? [2]

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Why is melting of butter not a chemical change? [2]

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……

Give reason why wet clothes are dried by hanging them in the open air [2]

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Give examples of two pungent smelling gases [2]

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Give example of two poisonous gases [2]

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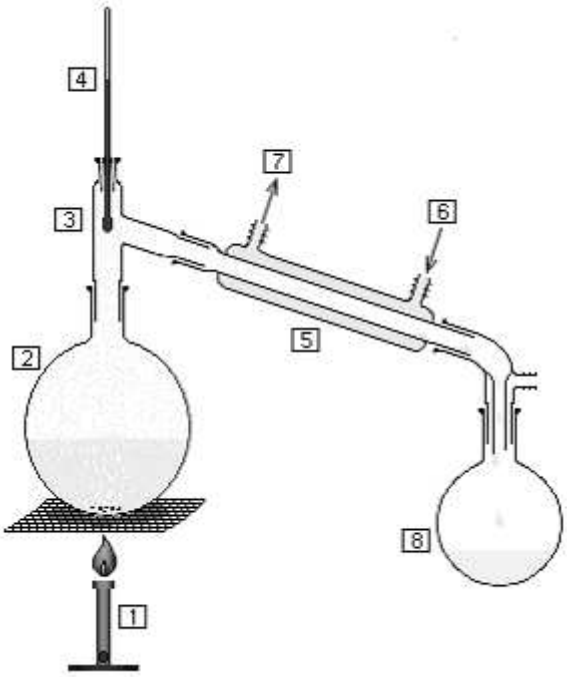
Question 8:

What do you mean by the term malleable [2]

……

……

A diagram of distillation apparatus is given below. Label its various parts 1-8 [8]



1.
2.
3.
4.
5.
6.
7.
8.

Question 9:

What is the use of tripod stand and wire gauze [4]

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……

……

Draw a neat diagram to show the evaporation method using an evaporation dish containing a salt solution placed on a sand bath and heated [4]

Give example of two gases lighter than air [2]

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Question 10:

Give two examples of chemical substances found in nature. [2]

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What method is used for collection of a gas, which is lighter than air and water-soluble? [3]

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……

"Iron expands on heating is considered as physical change" explain why? [3]

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Give example of two gases fairly soluble in water [2]

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