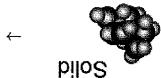
Year 7 Science 2024 Chemistry 1 Test



Circle your answer on the multiple choice answer sheet. **ZECTION 1: MULTIPLE CHOICE** (1 mark each)

1. Which change in state is illustrated?







- c) Evaporation
- d) Condensation
- 2. Which best describes a solid?
- b) Its particles do not move at all (a) Its particles vibrate in place
- c) Its particles can flow past each other
- d) Its particles are very far apart
- 3. Which states of matter have no fixed shape and no fixed volume?
- a) Gas and liquid
- (c) Plasma and gas b) Liquid and solid
- amsald bas bilos (b
- 4. Which statement best describes why gases are easily compressed.
- a) The particles can diffuse
- c) There is great energy between the particles allowing them to change b) There is a pressure between particles squashing them together
- There is a lot of a space between the particles.
- 5. The definition of melting point is:
- b) the temperature at which a solid changes to a gas a) the temperature at which a liquid changes to a gas
- c) the temperature at which a liquid changes to a solid
- (d) the temperature at which a solid changes to a liquid.
- 6. A physical change is
- a) When a substance is formed
- (b) One that can easily be reversed.
- c) When bubbles, smell or a colour change can be released.
- d) Also called a chemical reaction

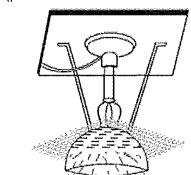
- 7. The separation techniques that relies on one substance being more soluble than another
- - combustion.

- filtration.

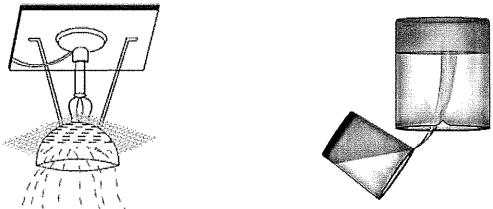
- b) Melting gold to make jewellery

- a) Freezing water to make ice cubes
- 8. Which of the following would not be a physical change?
  - - (g) evaporation and crystallisation.
      - ()
      - magnetic separation. (q

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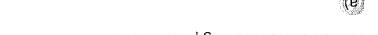


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- 1. Which of the following pictures shows decantation?
  - d) Filtration
  - c) Centrifugation
  - b) Chromatography

    - (a) Distillation
  - 10, To separate two or more liquids, you would use
    - d) Decanting
    - (c) Magnetic separation

      - b) Distillation
      - a) Wind separation
- 9. To separate a mixture of paper clips and sand, Joe should use

  - d) Boiling water for soup Surning gasoline in a lawn mower
  - - - - **(**2

### 12. Distillation is not useful for

- a) Purifying water
- b) Making distilled water
- c) Making essential oils or alcoholic liquors
- Extracting pure salt from sea water

13. A student wishes to obtain fresh water from salt water. The best way to do this is by:

- a) Filtration
- b) Evaporation
- (g) Distillation
- gnitnsoed (b
- 4 If you were planning to collec

14. If you were planning to collect salt from sea water, which of the following pieces of apparatus would be of least use?

- (a) Filter funnel
- b) Evaporating basin
- c) Bunsen burnerd) Tripod
- 15. Paper chromatography is good for separating
- mixtures of perfumes or flavourings.
- c) sugar from sand.
- q) dases.



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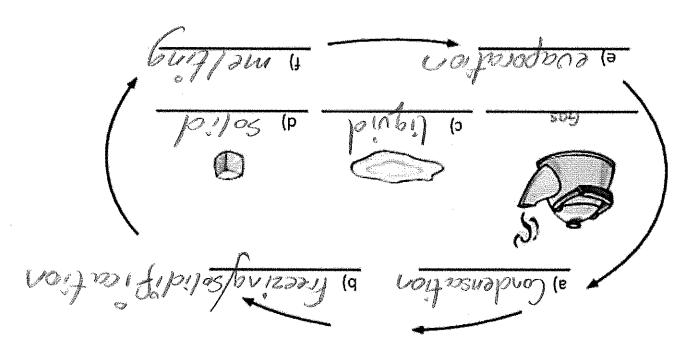
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# Mrite your answers in the spaces on the answer sheet provided.

1. Label the states of matter and phase changes in the following diagram. (6 marks)



Classify the following as solids, liquids or gases.

Air, milk, Ice, Wood, Rain, Rice, Steam, Steel, Snow, Cloud, Rock, Lava

7

(e marks)

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What type of separation is this? (1 mark)
grains. After washing the rice, the water is removed by pouring off the water.
5. When cooking rice it is important to wash the rice in water to remove the starch on the rice
FILTER B pasta/rice sieve/colandler
FILTERA Lea bag air condition or
used in every-day life. answers will be marks) washing maching
4. Filtration is used widely around the home and all around us. Give two examples of filters
Jobas - Pans - Eprilip non!
ers by
Mater + sugar heated in evaporation
FILER through filter sages to remove sand
add water to sand a sugar
remove from filings using magnet
<ol> <li>Explain step by step how you would separate a mixture of sand, sugar and iron filings, so that you could recover each part of the mixture in a relatively pure form. (4 marks)</li> </ol>

6. Starting with muddy sea water, name the separation techniques you would use to end up with

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pure water. distillat	၁
dry salt.	q
	) dry salt.

(e marks)

 $\Sigma$ . Match the following words to their correct definition.

a) clean sea water.

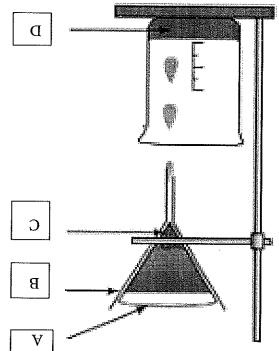
garan.				
	Anything that takes up space.	9	Solvent	
1		-		
	A mixture of a solvent and a solute	9	Saturated	E
	dissolve any more.			<u> </u>
	ot elds for si bris etulos to fruoms			
	A solution that has dissolved a large	7	Solute	
	other substances		<del>*************************************</del>	
	A substance that is able to dissolve	8	Mixture	၂
procession of the same	physically combined.			
	different substances which are			
	A material made up of two or more	7	Solution	8
0 4	piupil			
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for the correct				
word with the number				
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Match the letter	SHOWING	loguna.	m. r.a	
	Definitions	Number	Word	Letter

(2 marks)

## 8 Label the following diagram

Word bank:

retort stand filtrate, bosshead funnel residue filter paper beaker, clamp, funnel stand



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