Juliana sologie	Zonal Edu First Te	ucation Office - erm Unit Exam · Mixtures	Jaffna – II 2020	
en astanti	Grade 11	Science	Time- 1 hour	
		Part – 1		
Answer all question	ins			
Underline the mo	st appropriate answe	r		
1. Which one is the	example for mixture	?		
a. Fe powde	er b. Pure v	vater c. ,	Air d. Sulfur	
2. Features of the I	Heterogeneous mixtu	re		
A. Compone	nts of mixture can be	distinguished from	one another	
B. Composition are similar throughout the mixture				
C. Density is	different from place t	o place		
a. A , B	b. A ,C	с. В <i>,</i> С	d. A, B, C	
3. Symbol of Amm	onia aqueous solution	I		
a. N ₂ O	b. NH ₄ Oł	H c. NH ₃	d. NH₃OH	
4. 2 mol NH ₃ solub	le in 10 mol solution. I	Find the mole fraction	on of solute?	
a. 2/10	b. 10/2	c. 3/8 d.	2/12	
5. Set of laboratory	y equipment required	to prepare a standa	ard solution	
a. Volumetri	c flask, Beaker, wash l	bottle		
b. Conical fla	ask, Thistle funnel, wa	tch glass		
c. Volumetri	c flask, wash bottle, w	vatch glass		
d. Test tube,	, wash bottle, beaker			
6. Select the correc	ct method to dilute th	e concentrated acic	1	
a. Add water	r into acid			
b. Add acid i	nto water			
c. Add water	r drop by drop into aci	id		
d. Add acid d	drop by drop into wate	er		

- 7. Select the correct statement about solute
 - a. Component present excess in solution
 - b. Component present less in solution
 - c. Component present in equal amount in solution
 - d. Component present in solid state in solution
- 8. Which factor not influence the solubility
 - a. Temperature b. Nature of solute c. Nature of solvent d. Catalyst
- 9. In which day to day activity the nature of mixture won't be taken into consideration
 - a. CuSO₄ crystal production b. Yoghurt production
 - c. Colour dye production d. production of drugs
- 10. When opening the soda bottle why gas release out?
 - a. Evaporation of Soda Liquid b. Gas present in bottle release
 - c. CO₂ present in soda liquid release d. Pressure inside soda bottle decrease

Answer the following statement right or wrong

- 1. Temperature and mass is essential to mention the solubility (
- 2. Separation of components in a mixture using the difference of their physical properties is known as mechanical separation ()
- 3. During distillation process water pass from top to bottom of Liebig condenser()
- 4. Wash bottle is made up of glass (
- 5. Concentration will increase when the mole of solute increase in solution ()



Part - 11 A. Structured Essay

The picture show two major waste materials A and B removed from the factory. Waste B is a liquid used as a coolant.

1. Name the waste A and B with their physical state Waste physical state

Waste A	
Waste B	

2. What type of mixture form when waste A mixed with air?
3. Waste B contain diesel and kerosene oil which were used as fuel. Which one has low boiling point?
4. A mixture contain diesel and kerosene oil. Suggest a separation technique to separate diesel.
5. In order to check any other toxic in volatile chemicals present along with the mixture of diesel and kerosene.
a. Mention the most suitable technique which can be used?
b. Name two materials needed to perform the above mention technique in laboratory
c. State the reason for choosing the above technique
D. Marte A. disaster with weight sets and formation and its set disaster. If the probability of a large
mass of that acid is 62. Answer the following questions.
 B. Waste A dissolve with rain water and form the acidic solution. If the relative molecular mass of that acid is 62. Answer the following questions. 1. Mass of 0.01 mol acid
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 B. Waste A dissolve with rain water and form the acidic solution. If the relative molecular mass of that acid is 62. Answer the following questions. 1. Mass of 0.01 mol acid 2. Concentration of 10dm³ solution when 0.01 mol acid dissolve in water 3. State the change occur in solubility of waste A in water with temperature
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Part – 11.B Essay Questions

2. Common salt is extracted from marine water and citronella oil extracted from citronella grass.

A. 1. Write the chemical formula of common salt?

- 2. Calculate the mass of 1mol pure common salt.
- 3. Where common salt produce in industrial method?
- 4. How CaCO₃ precipitate in tank A?
- 5. Name two impurities present in common salt precipitate in tank C.
- 6. How these impurities are remove in salt turns?
- 7. In medical field saline is produce from common salt.
 - a. Name the basic composition of Saline
 - b. Suggest an appropriate separation technique to purify the common salt more to make saline.
- B. 1. Which part of plant used to produce citronella oil?
 - 2. Name two separation technique to produce citronella oil.
 - For one of the technique mention in question 2 solvent like ethanol can be used.
 Mention the function of these solvent.
 - 4. Below statements explain how two students X and Y used the 500ml of ethanol for performing this Separation.
 - X Add plant extract into 500ml ethanol and shake it

Y – Separate 500ml ethanol into 5 equal parts and add plant extracts 5 times into them and shake

- a. Which student procedure is more efficient?
- b. Explain the reason for more efficient.