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**Latrach Ahcene Secondary School** **School year**: 2022/2023
**Level** : 2nd Y SE / MT **Duration** : 02 h

# The third term English language Exam

## I) READING Read the passage below then do the activities that follow (15pts)

### Why does oil float on water but salt sinks?

What do computers, trees, and footballs all have in common? They are all solids. Solids are things that have a shape of their own. The opposite of solids are liquids, such as water and oil. They do not keep **their** shape. If you pour a liquid into a cup, it takes the cup's shape. However, liquids do not always mix when they are poured into the same cup. We are going to find out why, through an experiment.

We pour three inches of water into a jar. After that, we add a third of vegetable oil to the same jar. The result we get is as follows Oil floats on water because a drop of oil is lighter than a drop of water the same size. This means that water is denser than oil. Density is a measurement of how much a given volume or size of something weighs. Things that are less dense than water will float in water. Things that are denser than water will sink.

To illustrate this last point, we add salt to the same jar of water. Salt is heavier than water, so when you pour salt into the jar, it sinks to the bottom of **it**, carrying a drop of oil with it. In this water, the salt starts to melt. As it dissolves, the salt releases the oil, which floats back up to the top of the water.

*Adapted from https://www.exploratorium.edu/science explorer/volcano.html*

### A) Comprehension (08pts)

**1) The text is about :**

a) properties of water b) a scientific experiment c) a new discovery

**2) Say whether the following statements are true or false.**

a) solids and liquids have the same physical qualities

b) liquids lose their shape when put into a cup

c) oil has more density than water

d) salt is denser than oil

**3) answer the following questions according to the text**

a) what happens when you pour a liquid into a container?

b) did the text answer the first part of the question in the title? Justify your answer

c) describe the result of pouring salt into water.

**4) Who or what do the underlined words refer to in the text?**

a) their (1§) b) it (3§)

**5) in which paragraph is it mentioned that salt sinks?**

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**B) Text Exploration (07pts)**

**1) Find in the text words that are closest in meaning to the following**

a) Form (1§) b) to exemplify (3§)

**2) Give the correct form of the verbs in brackets**

a) if scientists (to invent) ……. Various machines, world (to be) ……. More developed .

b) if you (to mix) …… oxygen with hydrogen, you (to get) ……water

c) what (to happen) …….. to you if you (to touch) ……. a wire of electricity?

**3) Classify the following verbs according to the pronunciation of their final 'ed':**

Protected – declared – demolished – stopped – volunteered – flooded.

| /d/ | /t/ | /id/ |
|---|---|---|
| | | |

**4) fill in the gaps with the words from the list given**

Down - increases – decreases - density

If the weight or mass of something …… But the volume remains the same, the ……has to increase. Likewise, if the mass …….. but the volume stays the same, the density has to go…….

**II) Writing**

Choose one of the following topics

Topic one:

The advancements in science has witnessed in recent years have facilitated many things for people.

Using the following notes, write a paragraph in which you talk about progress/development in science and its usefulness.

- Science's importance today/more laboratories
- New discoveries and inventions
- Life is easier/transparent/housing/medicines
- Technological development.

**Topic two:**

Imagine you are in a dilemma. Write a letter to a doctor seeking his/her advice.

**Good luck**

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