# Grade11 Life sciences Practical task

# Instructions

- Read the given reader below and understand it so that you may answer the questions that will follow bellow.
- Answer each question's; don't leave any question unanswered if you do so you will be penalised.
- If you didn't write the work you will get zero and you won't do the practical in class.
- After the practical you will submit your work in class.
- 5. This practical will also prepare you for the exam that is about to come in November

#### Practical 1: Dissection of a sheep heart

#### Heart Dissection Walk Through:

The heart dissection is probably one of the most difficult dissections you will do. Part of the reason it is so difficult to learn is that the heart is not perfectly symmetrical, but it is so dose that it becomes difficult to discern which side you are looking at (dorsal, ventral, left or right). Finding the vessels is directly related to being able to orient the heart correctly and figuring out which side you are looking at.

The heart is also difficult because the fatty tissue that surrounds the heart can obscure the openings to the vessels. This means that you really must experience the heart with your hands and feel your way to find the openings. Many people will be squeamish about this, and because the heart is slippery, it is easy to drop. Don't be shy with the heart; use your fingers to feel your way through the dissection.

## 1. Step One: Orientation

When you first remove your heart from the bag, you will see a lot of fatty tissue surrounding it. It is usually a waste of time to try to remove this tissue. You may also want to arm yourself with some kind of markers for the parts you find, colour pencils work great to identify a vessel and you will see many used to mark openings on the heart.

There are a few clues to help you figure out the left and the right side, but often the packaging and preserving process can cause the heart to be misshapen. If you are lucky, the heart will be nicely preserved and you will see that the front (ventral) side of the heart has a couple of key features:

- a large pulmonary trunk(artery) that extends off the top of it
- 2) the flaps of the auricles covering the top of the atria.
- 3) thecurve of the entire front side, whereas the backside is much flatter.

# **Grade 11 Life Sciences Practical Examination November 2013 Memo**

National Academies of Sciences,
Engineering, and Medicine, Division on
Earth and Life Studies, Board on
Environmental Studies and
Toxicology, Ocean Studies
Board, Committee on the Evaluation of
the Use of Chemical Dispersants in Oil
Spill Response

## Grade 11 Life Sciences Practical Examination November 2013 Memo:

The Use of Dispersants in Marine Oil Spill Response National Academies of Sciences, Engineering, and Medicine, Division on Earth and Life Studies, Board on Environmental Studies and Toxicology, Ocean Studies Board, Committee on the Evaluation of the Use of Chemical Dispersants in Oil Spill Response, 2020-05-24 Whether the result of an oil well blowout vessel collision or grounding leaking pipeline or other incident at sea each marine oil spill will present unique circumstances and challenges The oil type and properties location time of year duration of spill water depth environmental conditions affected biomes potential human community impact and available resources may vary significantly Also each spill may be governed by policy guidelines such as those set forth in the National Response Plan Regional Response Plans or Area Contingency Plans To respond effectively to the specific conditions presented during an oil spill responders have used a variety of response options including mechanical recovery of oil using skimmers and booms in situ burning of oil monitored natural attenuation of oil and dispersion of oil by chemical dispersants Because each response method has advantages and disadvantages it is important to understand specific scenarios where a net benefit may be achieved by using a particular tool or combination of tools This report builds on two previous National Research Council reports on dispersant use to provide a current understanding of the state of science and to inform future marine oil spill response operations. The response to the 2010 Deepwater Horizon spill included an unprecedented use of dispersants via both surface application and subsea injection The magnitude of the spill stimulated interest and funding for research on oil spill response and dispersant use in particular This study assesses the effects and efficacy of dispersants as an oil spill response tool and evaluates trade offs associated with dispersant use Author Index to Psychological Index, 1894 to 1935, 1960

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