

NAME: Kent Clerk N. Biala.

GRADE 11 BLOCK 3 STEM

GENERAL BIOLOGY II

LAB REPORT

TITLE: DISSECTION OF FROG

INTRODUCTION:

In this experiment the Grade 11 STEM are assigned to do a dissection of frog on June 9, 2023. In order to examine its physiology and anatomy. As well as to gain knowledge and experience from this experiment.

MATERIALS:

The following are the materials used in this experiment

- Frog
- Reading materials of the frog physiology and anatomy
- Dissection tray
- Blade/Scalpel/Cutter
- Dissecting pad
- Dissecting pins/ push pins
- Forceps
- Small scissors
- Ruler
- Latex or plastic gloves
- Plastics, Newspaper
- Small basin
- Lab gown
- Lab report

DATA:

SEX: MALE

HEIGHT: 18 cm

TOUNGE: 25 cm

STOMACH :2.5 cm

SMALL INTESTINE :7 cm

LARGE INTESTINE :1.9 cm

BRAIN :1.3 cm

TIME OF DEATH : 1hr : 05 min, 4:19pm



PROCEDURE: BEFORE THE OPERATION

- 1.) Wash the frog in the sink to ensure that the frog is clean and to lessen it's stench
- 2.) After frog has been washed hold it tight and asked for someone to puncture the frogs head using one of the pointed probe. Puncture it until the head bleed and until it's completely paralyzed
- 3.) After the frog has been completely paralyzed the student must determine the sex of the frog . In order to do this students have to examine it's front feet male frog have a fatter thumb pad and look bulbous and fatter the thin finger of the female frog. Identifying it's gender will be crucial for the students data
- 4.) Once the sex has been identified the frog will be pinned to the dissecting pad the fore limbs and the hind limbs will be pinned to the pad

- 5.) After the frog has been pinned the student will measure the frog using a ruler with the metric measurements of centimeters. In order to determine it's height the height of the frog will be put on your data
- 6.) The students will have to identify every external parts of the frog and there function for their survival
- 7.) Once identified the students will have to open the frogs mouth there they will identify the parts of the frog's mouth these include the tounge , maxillary teeth, and internal nostril

PROCEDURE: DURING OPERATION

- 1.) Cut the side of the frog's mouth to see all the parts of the frog's mouth these includes the glottis, gullet opening, Eustachion tube opening and the vocal sac opening (only males have vocal sac opening)
- 2.) After seeing all the parts of the mouth. Grab a forceps and stretch the tounge and cut it by using a Cutter ,Blade or Scalpel. Cut the tounge to where it was attached and stretch it once again. Using a ruler measure the tounge . After measuring it put the data that you've collected to your paper or notebook
- 3.) Once you've measured it's tounge and gather it's data move on to the next task. Start your stopwatch this will be crucial for your data and grades the heartbeat of the frog must last until an hour. Once you started the stopwatch find the cloaca of the frog once located stretch the skin of the frog using a forceps and cut the skin epidermis layer of the frog using a scissor .Cut open the torso with an H pattern cut

this could create a hefty flap that you can pull back and open the frog as well as pinning that skin to the pad.

- 4.) After opening the first skin the next is opening the second layer of the frog skin which is called the dermis. The same pattern and tools is applicable to both skin layer. Although be careful and gentle when cutting the next layer considering that you might cut or injure the organs of the frog more importantly the heart.
- 5.) Once opened identify the internal organs of the frog. Using a probe lift some of it's organs such as the liver, small intestine and large intestine but be warned always be gentle when lifting the organs. It's because some of the organs such as the kidney and their reproductive organs are hidden among them
- 6.) Once all organs are identified . Remove the liver using a forceps and scissor in order to remove the organs that's because the liver is one of the largest it will hinder the student from removing the other organs such as the stomach and the intestine. After the student removed the liver put it on a tray then start removing the stomach cut both ends of the stomach. Then cut it open using a scissor then measure it and record it's data. Same goes for the small and large intestine remove and measure them. After that remove all the remaining organs and put them all on a dissecting tray including the reproductive organs and more.

- 7.) All organs have been removed turned the frog over and scape it's head to get it's brain. In getting it's brain students must exert force at the same time being careful not to crush it's brain once the students get the brain measure it and put it on the tray.

PROCEDURE: AFTER THE OPERATION

- 1.) Once the student is done clean their area. The rubber gloves and facemask should be disposed properly to medical waste trash cans or garbage bag. Students have to wash their hands and sanitize them using their alcohol.
- 2.) The frog should remained pinned and all the frog that has been dissecting need to gather in all just one place. And left it there until it became a skeleton.
- 3.) The dissection tools used in this experiment will be soaked with alcohol to remove it's stench and sterilize the tools and after it's soaked return to it's dissecting kit.

REFLECTION

In this experiment I learned and discovered a lot regarding this experiment. I was also mesmerized to this experiment by seeing the organs of the frog and it's structure. The night's I spend memorizing the frog anatomy and watching the frog dissection video was all worth it because I applied it to our dissection and I didn't have a hard time dissecting. Am also happy to help my classmates to identify the organs and help them with their dissection. I have to admit it's really exhausting but it's mentally and physically satisfy platter the results all the hard work I paid into it paid off. I would also like to thank my advisor for supporting and guiding to this experiment. And fellow classmates because without them I couldn't handle . This is all for my lab report I hope you find interesting that's all thank you.

