

# Grade11 Life sciences Practical task

## Instructions

1. Read the given reader below and understand it so that you may answer the questions that will follow below.
2. Answer each question's; don't leave any question unanswered if you do so you will be penalised.
3. If you didn't write the work you will get zero and you won't do the practical in class.
4. 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 close 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:

- 1) 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) the **curve** of the entire **front side**, whereas the **backside** is much **flatter**.

# Grade 11 Life Science Practical Paper 3 Examination

**Shasha Hu**



## **Grade 11 Life Science Practical Paper 3 Examination:**

**Birth Of My First Patent** R. Easwaran, 2022-08-13 The author is the inventor of an apparatus for the helicopter He holds an International Patent Application and a Patent Grant Certificate from the Indian Patent Office The book describes how a humble hobby and inclination to do simple school projects helped the author get a Patent Grant for a novel invention Youngsters are the country's future This book attempts to motivate all its readers to discover the potential within themselves It is a good mixture of technical sociological and philosophical insight This book is certain to be an eye opener for youngsters parents and educationists

**Resources in Education**, 2000-04 Proceedings of the International Conference on Education Research Reza Hosseini, **Assessment and Teaching of 21st Century Skills** Patrick Griffin, Barry McGaw, Esther Care, 2011-10-20 Rapid and seemingly accelerating changes in the economies of developed nations are having a proportional effect on the skill sets required of workers in many new jobs Work environments are often technology heavy while problems are frequently ill defined and tackled by multidisciplinary teams This book contains insights based on research conducted as part of a major international project supported by Cisco Intel and Microsoft It faces these new working environments head on delineating new ways of thinking about 21st century skills and including operational definitions of those skills The authors focus too on fresh approaches to educational assessment and present methodological and technological solutions to the barriers that hinder ICT based assessments of these skills whether in large scale surveys or classrooms Equally committed to defining its terms and providing practical solutions and including international perspectives and comparative evaluations of assessment methodology and policy this volume tackles an issue at the top of most educationalists' agendas

**Appendix to the Journals of the House of Representatives of New Zealand** New Zealand. Parliament. House of Representatives, 1888 The Journal of Education, 1892 **Complete Book of Colleges** Princeton Review (Firm), 2009-08-04 Target the schools that best match your interests and goals The Complete Book of Colleges profiles all of the four year colleges in the U S more than 1 600 and is the key to a successful college search Complete Book of Colleges is packed with all of the information that prospective applicants need to know including the details on Academics Admissions requirements Application procedures Tuition and fees Transferring options Housing Financial Aid Athletics and much much more Fully updated for 2010 the Complete Book of Colleges contains all of the latest information about each school Its unique Admissions Wizard questionnaire is designed to help you find schools that meet your individual needs With competition for college admission at an all time high count on The Princeton Review to provide you with the most thorough and accurate guidance on the market

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