

**GRADE 12
LIFE SCIENCES
CONTROL TEST 3
28 August 2017**

Total: 75
Time: 75 minutes

	Possible marks
Section A:	20
Section B:	25
Section C:	30
Total	75

Instructions:

Read the following instructions carefully before answering the questions.

- Answer ALL questions of SECTION A, B and C.
- Write ALL the answers in your ANSWER BOOK.
- Start the answers to each question at the top of a NEW page.
- Number the answers according to the numbering system used in the question paper.
- Present your answers according to the instructions of each question.
- ALL drawings should be done in pencil and labelled in blue or black ink.
- Draw diagrams, flow-charts or tables only when asked to do so.
- The diagrams in the question paper are NOT necessarily drawn to scale.
- You must use a non-programmable calculator, protractor and compass where necessary.
- Write neatly and legibly.

This paper consists of 8 pages and 4 questions.

SECTION A

QUESTION 1

1.1 Various options are provided as possible answers to the following questions. Choose the answer and write only the letter (A to D) next to the question number (1.1.1 to 1.1.5), for example 1.1.1.A.

- 1.1.1 Eutrophication is caused by..... (2)
- the run-off of fertilisers from farms
 - plastic and rubbish pollution
 - the decomposition of organic material
 - polluting of water by blue-green algae
- 1.1.2 Alien invasive plants out-compete indigenous plants and reduce biodiversity in the following way..... (2)
- Aquatic invasive plants block rivers, release toxins and use up oxygen and light.
 - They have natural predators which feed on indigenous plants
 - They grow slower but sturdier/longer
 - Indigenous animal species don't prefer to eat their fruits or seeds, with the result that they grow less.
- 1.1.3 Which of the following descriptions is TRUE about endocrine glands? (2)
- Glands with ducts that release hormones
 - Glands with ducts that release enzymes
 - Glands that release hormones directly into the blood
 - Glands that release enzymes directly into the blood
- 1.1.4 The most common effects of mining wastes on water quality include..... (2)
- Increased salinity
 - Increased sediment load
 - Increased acidity
 - Increased metal content

2 | P a g e

1. A (5), (8) and (9)-only (2)
2. (5), (8) and (9)-only (2)
3. (8), (9) and (9)-only (2)
4. (5), (8) and (9) (2)

- 1.1.8 Genetically modified crops are important because..... (2)
- they have different genes
 - they have desirable characteristics to improved crop yields
 - they need more pesticides
 - they don't need water to grow

1.2 Give the correct biological term for each of the following descriptions. Write only the term next to the question number. (2x1=2)

- 1.2.1 Organic chemical messengers that will have an effect on target organs.
- 1.2.2 The (biological) community of plants or animals from the soil.
- 1.2.3 The maintenance of the body's internal environment.
- 1.2.4 The addition of something to the ecosystem that has a detrimental effect on it.
- 1.2.5 An area of land that is partly covered by water for some or all of the year.

1.3 Choose the correct description from Column B that suits the term in Column A. Only write the correct letter next to the question number. (Example 1.3.1)

Column A	Column B
1.3.1 TSH	A Stimulates the adrenal glands
1.3.2 Adrenaline	B Stimulates follicle growth
1.3.3 FSH	C Develops secondary sexual characteristics
1.3.4 ADH	D Stimulates the release of oxytocin
1.3.5 Testosterone	E Influences the reabsorption of salt
	F Enables the body to respond to an emergency
	G Influences reabsorption of water
	H Stimulates the thyroid gland

(2x1=2)

Total Section A : 20

2 | P a g e

SECTION B

QUESTION 2

2.1 Read through the following abstract and answer the questions that follow.

UN: Food security says 140 million face hunger in Southern Africa

About 140 million people face hunger in Southern Africa because of a drought that has been exacerbated by an El Niño weather pattern (a warming of ocean surface temperatures) according to the United Nations World Food Programme (WFP). South Africa faces its worst drought in decades after 2015 was the driest calendar year since records began in 1954. Seven billion of a star crop this season could force the country to import up to \$1 billion tons of maize over half of its consumption needs. Sharp prices in South Africa fuel recent fights. Your particular worrying symptoms of Southern Africa's vulnerability to food and nutrition security in the coming era of climate change.

Abstract from WFP/WFP for UNICEF, based on UNICEF, 10 January 2017

- 2.1.1 What is "El Niño"? (1)
- 2.1.2 Describe how human activities could negatively influence climate that causes drought and how it influences food security. (4)
- 2.1.3 South Africa is a semi-arid country. With the recent drought, a lot of stress was put on our water availability. Suggest THREE ways in which South Africans can increase the water availability in the future. (3)
- 2.1.4 Use the information above and predict how South African consumers will be affected by the drought. (2)
- 2.1.5 Write a short paragraph to highlight the main problem the world is facing as a result from the abstract. Mention TWO ways in which it can probably be solved. (2)



(5)

TOTAL QUESTION 2 : 15

4 | P a g e

Life Science Control Test Grade 12question Paper

Disha Experts



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Resources in Education ,2000 **The Learning Skills Cycle** William R. Klemm,2017-03-01 This book s ideas demonstrate how students are not adequately taught the learning skills necessary for superior academic achievement The major reason schools are failing is that there is less emphasis on teaching students how to learn the focus is on what to learn instead This book provides teachers and parents with many concepts and tactics that they can use to teach children how to learn more efficiently and effectively This book identifies and explains those skills and frames them as interacting in a mutually interacting and reinforcing cycle that I call the Learning Skills Cycle **12 YEAR-WISE CTET Paper 2**

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Resources in Education ,1995 **Research in Education** ,1974 Current awareness in school health education ,1982 *Large Space Structures & Systems in the Space Station Era* ,1992 **The Software Encyclopedia** ,1988

Design, Operation, and Control of Insect-Rearing Systems Allen Carson Cohen,2021-08-24 Design Operation and Control of Insect Rearing Systems Science Technology and Infrastructure explains the fundamental components of insect rearing 1 the rearing systems per se 2 personnel 3 education of rearing personnel 4 communication of procedures 5 an in depth look at silkworm rearing 5 facilities where rearing is conducted and 6 funding for all these components Insect rearing serves a wide array of purposes including research pest control by sterile insect technique and biological control production of insects as food for other animals conservation education and even far reaching technology where insects are used to produce products such as pharmaceutical materials and strong multipurpose textiles This book surveys and analyzes insect rearing from a scientific and technology based approach At its foundation this approach assumes that rearing systems are complex interactions of components that can be understood and controlled by using a mechanistic approach Author Allen Carson Cohen explains the infrastructure of rearing systems their current status and character and what kind of changes can be made to improve the field of insect rearing Two Appendices republish out of print monographs that provide fascinating historical context to the development of the insect rearing systems we have today *Medical School at a Glance* Rachel K. Thomas,2016-10-26 Starting Medical School can be incredibly daunting and the transition to being a medical student can be enormously challenging Medical School at a Glance is an accessible guide to help give you confidence and to gain a running start to your medical school training Covering core areas such as medical training developing effective learning strategies understanding common principles learning how to behave in the clinical setting and how to interact with patients and peers this book will help to demystify the process and prepare you as you embark on your medical career Providing an insider s view of useful information to build a solid basic foundation for your learning Medical School at a Glance is essential for those considering studying medicine or are in their first years of study

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