KWAZULU-NATAL PROVINCE

EDUCATION
REPUBLIC OF SOUTH AFRICA

NATIONAL SENIOR CERTIFICATE

GRADE 11

LIFE SCIENCES

MARKING GUIDELINES

SEPTEMBER 2025

TEST

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MARKS: 50

This marking guideline consists of 6 pages.

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PRINCIPLES RELATED TO MARKING LIFE SCIENCES SEPTEMBER 2025

1. **If more information than marks allocated is given**
   Stop marking when maximum marks are reached and put a wavy line and 'max' in the right-hand margin.

2. **If, for example, three reasons are required and five are given**
   Mark the first three irrespective of whether all or some are correct/incorrect.

3. **If whole process is given when only part of it is required**
   Read all and credit relevant part.

4. **If comparisons are asked for and descriptions are given**
   Accept if differences / similarities are clear.

5. **If tabulation is required but paragraphs are given**
   Candidates will lose marks for not tabulating.

6. **If diagrams are given with annotations when descriptions are required**
   Candidates will lose marks

7. **If flow charts are given instead of descriptions**
   Candidates will lose marks.

8. **If sequence is muddled and links do not make sense**
   Where sequence and links are correct, credit. Where sequence and links is incorrect, do not credit. If sequence and links become correct again, resume credit.

9. **Non-recognised abbreviations**
   Accept if first defined in answer. If not defined, do not credit the unrecognized abbreviation but credit the rest of answer if correct.

10. **Wrong numbering**
    If answer fits into the correct sequence of questions but the wrong number is given, it is acceptable.

11. **If language used changes the intended meaning**
    Do not accept.

12. **Spelling errors**
    If recognizable accept provided it does not mean something else in Life Sciences or if it is out of context.

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13. **If common names given in terminology**
Accept provided it was accepted at the National memo discussion meeting.

14. **If only letter is asked for and only name is given (and vice versa)**
No credit

15. **If units are not given in measurements**
Candidates will lose marks. Memorandum will allocate marks for units separately

16. Be sensitive to the **sense of an answer, which may be stated in a different way**.

17. **Caption**
All illustrations (diagrams, graphs, tables, etc.) must have a caption

18. **Code-switching of official languages (terms and concepts)**
A single word or two that appears in any official language other than the learners' assessment language used to the greatest extent in his/her answers should be credited, if it is correct. A marker that is proficient in the relevant official language should be consulted. This is applicable to all official languages.

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SECTION A

QUESTION 1

1.1	1.1.1	C✓✓			
	1.1.2	B✓✓			
	1.1.3	C✓✓		(3 x 2)	**(6)**
1.2	1.2.1	Podocytes✓			
	1.2.2	Excretion✓		(2 x 1)	**(2)**
1.3	1.3.1	A only✓✓			
	1.3.2	B only✓✓			
	1.3.3	Both A and B✓✓		(3 x 2)	**(6)**
1.4	1.4.1	(a)	B✓ - renal artery✓		(2)
		(b)	D✓ - ureter✓		(2)
		(c)	C✓ - renal vein✓		(2)
					(6)

TOTAL SECTION A: [20]

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SECTION B

QUESTION 2

2.1 2.1.1 (a) Trachea✓ (1)

(b) Alveolus✓ (1)

2.1.2
- Diaphragm ✓ relaxes and become arched✓/Diaphragm relaxes pushing air/ CO_2
- External intercoastal muscles✓ relaxes to lower the rib cage✓ This decreases the volume of the thoracic cavity✓

(Mark first FOUR only) Any (4)

2.1.3
- surface area available for gaseous exchange is reduced✓/ blockage of air-passage by tumours
- leading to less/no oxygen entering the blood✓
- less /no oxygen reaching tissues /heart muscles✓
- More carbon dioxide being trapped✓/not exhaled which dissolves in water forming carbonic acid✓ resulting in heart failure✓

(Mark first THREE only) Any (3)

(9)

2.2 2.2.1 South Africa✓ (1)

2.2.2 - has highest youth unemployment rate✓ (2)
- due to high population in young age✓

2.2.3 $\left[\frac{20 - 15}{15}\right]$ ✓ x 100✓

= 33.33% ✓

OR

$\left[\frac{20\,000 - 15\,000}{15\,000}\right]$ ✓× 100 ✓

= 33,33 % ✓ (3)

(6)

[15]

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QUESTION 3

3.1 3.1.1 Predator-prey✓ (1)

3.1.2 (a) - they hunt in packs✓
- to increase the chances of successful hunting✓ (2)

(b) - to prevent overgrazing of the land✓ /land degradation
- which can result in reduced carrying capacity✓ (2)

3.1.3 - Commensalism✓
- Parasitism ✓

(Mark first TWO only) (2)

(7)

3.2 3.2.1 (a) - The investigation was conducted over a period of five days✓ (1)

(b) - to ensure there is less water in the blood before the investigation ✓
- to improve validity of the investigation✓

(Mark first ONE only) (1)

(c) - Ask learner's permission ✓
- Decide on the instrument to collect the urine produced ✓
- Decide on how to record the results ✓
- Decide on time ✓/ venue of the investigation

(Mark first ONE only) (1)

3.2.2 ADH✓ (1)

3.2.3 - less ADH is secreted into the blood✓
- less ADH causes the walls of distal convoluted tubule and collecting tubule to become less permeable✓
- less water leaves the tubule by osmosis✓
- more water thus remains in the tubule✓
- more water is released through diluted urine✓

(Mark first FOUR only) (4)

(8)

[15]

TOTAL SECTION B: 30

GRAND TOTAL: 50

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