Province of the
EASTERN CAPE
EDUCATION

Iphondo leMpuma Kapa: Isebe leMfundo
Provinsie van die Oos Kaap: Department van Onderwys
Porafensie Ya Kapa Botjahabela: Lefapha la Thuto

NATIONAL SENIOR CERTIFICATE

GRADE 11

MARCH 2024

Stanmorephysics.com

LIFE SCIENCES
CONTROLLED TEST 1
MARKING GUIDELINE

MARKS: **50**

This marking guideline consists of 5 pages.

PRINCIPLES RELATED TO MARKING LIFE SCIENCES

1. **If more information is given than marks allocated**
   Stop marking when maximum marks are reached and put a wavy line and write '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 a part of it is required**
   Read all and credit the relevant part.

4. **If comparisons are asked for but descriptions are given**
   Accept if the 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 are 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 unrecognised abbreviation but credit the rest of the 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 recognisable, accept the answer, provided it does not mean something else in Life Sciences or if it is out of context.

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

14. **If only the letter is asked for but only the name is given (and vice versa)**
    Do not 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 appear(s) 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.

19. **Changes to the marking guideline**
    No changes may be made to the marking guideline without consulting the provincial internal moderator.

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SECTION A

QUESTION 1

1.1	1.1.1	C✓✓			
	1.1.2	A✓✓	(2 x 2)		**(4)**
1.2	1.2.1	Sessile✓			
	1.2.2	Thallus✓	(2 x 1)		**(2)**
1.3	1.3.1	A only✓✓			
	1.3.2	Both A and B✓✓	(2 x 2)		**(4)**
1.4	1.4.1	Bacillus✓			(1)
	1.4.2	(a) C✓ flagellum✓			
		(b) A✓ nucleoid✓	(2 x 2)		(4)
					(5)

TOTAL SECTION A: 15

SECTION B
QUESTION 2

2.1	2.1.1	A – Gymnosperms✓ B - Pteridophytes✓		(2)
	2.1.2	1- frond✓ 2 - adventitious roots✓ 3 - rhizoids✓		(3)
	2.1.3	They produce seeds✓		(1)
	2.1.4	Angiosperms✓/ Gymnosperms		(1)
	2.1.5	- True vascular tissue/ xylem and phloem for transport of water and nutrients✓ - Seeds which protect developing embryo✓/ protected in ovary or cone - Do not depend on water for sexual reproduction✓ **(Mark first ONE only)**	Any	(1)
	2.1.6	Plant group A have: - True stem, roots and leaves✓/ not a thallus plant - Conducting tissues such as xylem and phloem✓ **(Mark first TWO only)**		(2) **(10)**

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2.2 2.2.1 - Kingdom Animalia✓
- Phylum Cnidaria✓ (2)

2.2.2 Blind gut✓ (1)

2.2.3 (a) Radial✓symmetry (1)

(b) Advantage: Collect food/ react to danger from any direction✓
Disadvantage: Sessile✓/ attached to a substrate/ cannot move about/ free- floating (2)

2.2.4 - the presence of a definite head✓
- that contains sense organs✓ in animals (2)
(8)
[18]

QUESTION 3

3.1 3.1.1 Preference of Hummingbirds✓ (1)

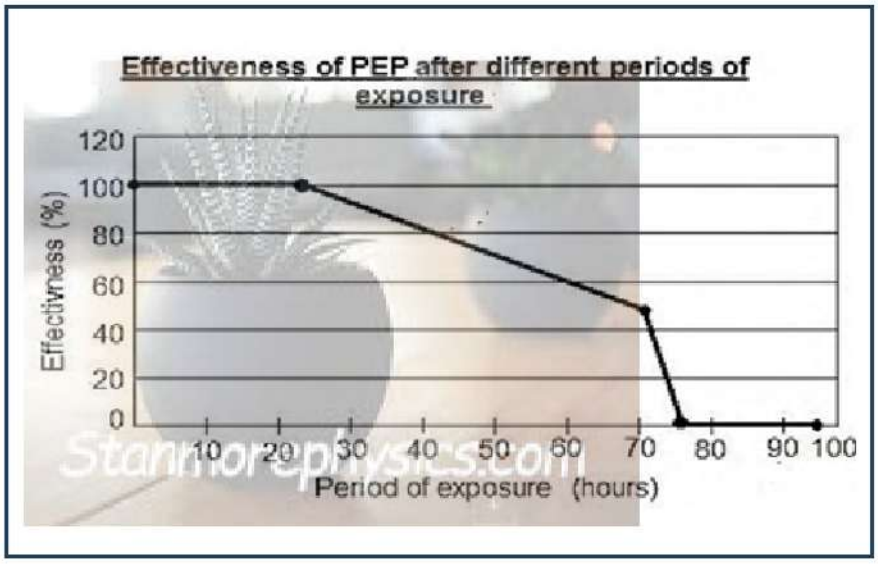
3.1.2 Hummingbird prefers A. Formosa more than A. Pubescents✓ (1)

3.1.3 Same
- Environmental conditions✓
- Number of flowers for each plant species✓
- Number of hummingbirds✓
- Person doing the experiment✓ Any (1)

(Mark first ONE only)

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3.2 3.2.1



Guideline for assessing the graph

CRITERIA	MARK
Correct type of graph (T)	1
Caption of graph (C)	1
Axes labels (L)	1
Scale for X- and Y-axis (S)	1
Plotting: (P) 1 - 4 co-ordinates are plotted correctly All 5 co-ordinates are plotted correctly	 1 2

(6)

3.2.2 75%✓ (Range 72-77) (1)

3.2.3 The effectiveness of PEP drugs declines proportionally with time✓/ if administered after 24 hours (1)
(8)

3.3
- The gene coding for insulin is removed from human DNA✓and
- inserted into the plasmid of the bacterium✓
- The recombined DNA/ Plasmid is placed back into the bacterium cell✓
- The bacterium is allowed to reproduce✓
- Many bacteria cells with the desired gene coding for insulin production are formed✓
- The insulin is extracted and purified✓ Any (5)

[17]

TOTAL SECTION B: 35
GRAND TOTAL: 50

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