



Education

**KwaZulu-Natal Department of Education
REPUBLIC OF SOUTH AFRICA**

**LIFE SCIENCES
COMMON TEST
MARKING GUIDELINE - MARCH 2018**

NATIONAL
SENIOR CERTIFICATE

GRADE 11

MARKS: 60

This memorandum consists of 6 pages.

PRINCIPLES RELATED TO MARKING LIFE SCIENCES

1. If more information than marks allocated is given Stop marking when maximum marks is 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 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 national 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.

SECTION C**QUESTION 4****Body Plan of Porifera**

- Organisms are asymmetrical✓
- They have no cephalisation✓
- since they are sedentary✓/sessile
- Water circulates inside sac✓/spongocoel
- and is ejected through single opening✓/osculum
- Individual cells sense environment✓ and react to changes in the environment
- No tissues/organs present✓
- No coelom present✓/no mouth since they are filter-feeders✓
- No blood system present✓
- since all cells are in direct contact with the water✓ so diffusion is sufficient✓
- for all cells to obtain nutrients✓/for gaseous exchange/for waste removal

Body Plan of Platyhelminthes

- Bodies are flat✓
- and have no coelom✓/acoelomate enabling rapid diffusion of substances✓
- This enables endoparasitic organisms✓ to obtain food efficiently✓
- They are triploblastic✓/have ectoderm, endoderm and mesoderm allowing greater complexity/differentiated tissue/organ specialisation✓ which suits the lifestyle of a motile✓ organism
- Some have a blind gut✓/one gut opening
- No blood system✓ since the process of diffusion is sufficient✓ to obtain substances needed
- Organisms have bilateral symmetry✓ and dorsoventral differentiation✓
- They have cephalisation✓
- Cephalisation enables mobile organisms✓ to detect food✓/sense danger
- and respond quickly when entering a new environment✓

Any 9 (9)

Content: (17)
Synthesis: (3)
(20)**ASSESSING THE PRESENTATION OF THE ESSAY**

Relevance	Logical sequence	Comprehensive
All information provided is relevant to the topic	Ideas arranged in a logical/cause-effect sequence	Answered all aspects required by the essay in sufficient detail
All information provided is relevant to:	All information regarding:	Required minimum mark for each aspect:
<ul style="list-style-type: none"> - The body plan of Porifera in relation to its mode of life - The body plan of Platyhelminthes in relation to its mode of life 	<ul style="list-style-type: none"> - The body plan of Porifera in relation to its mode of life - The body plan of Platyhelminthes in relation to its mode of life 	<ul style="list-style-type: none"> - The body plan of Porifera in relation to its mode of life (5/8) - The body plan of Platyhelminthes in relation to its mode of life (6/9)
There is no irrelevant information.	1 mark	1 mark

TOTAL SECTION C: 20**GRAND TOTAL:** 60

