

PRACTICAL FORMAT (BIOLOGY) : NEW CURRICULLUM

PRACTICAL PAPER: TWO ELEMENTS OF CONSTRUCT

1. Item one: **Experimentation and processing;**

- Time 85 minutes
- Total score for item one 23 marks

Sample test item 1

Mr Budala intends to grow maize an annual plant, he has a vast piece of land but he doesn't now which particular area will give the highest productivity. He has presented to you the provided soil samples from his garden, as a biology student help recommend the sample suitable for his agricultural plan

Candidates analyses test item number 1, comes up with own choice of the following;

- | | | |
|-------|--------------------------------|----------|
| i. | Title | (01 mk) |
| ii. | Aim | (01 mk) |
| iii. | Hypothesis | (01 mk) |
| iv. | Variables | (03mk) |
| v. | Materials | (02 mks) |
| vi. | Procedure/s | (03 mks) |
| vii. | Results | (5mks) |
| viii. | Analysis/Discussion | (05 mks) |
| ix. | Conclusion and recommendations | (02 Mks) |

TOTAL 23 MARKS

2. Item 2: **Application of Biological knowledge in identification, grouping, physiology, etc**

- Identification
- Dichotomous key
- Drawings as support
- Physiological processes

Example of test item 2;

Learners have a problem of poor garbage management and houseflies are seen flying to students' food, currently there is a serious outbreak of diarrhoea. The specimen collected provided was associated with this outbreak. As a biology student help the administrator understand the relationship of the outbreak and the specimen and how the outbreak can be handled;

Approach

- Classify (03 MKS)
- Ecology & Mode of life (03 MKS)
- Adaptability as a vector (03MKS)
- Diarrhoea symptoms and sign (02 MKS)
- Support by drawing any hairy part (03 MKS)
- Control measure (03 MKS)

BIOLOGY PAPER ONE;

5 Elements of construct:

1. Appreciate diversity, soil, pollution and conservation (*classification, cell biology, viruses, insects, flowering plants, pollution, soil*)
2. Understand how plants obtain nutrient for requirements and products carried to and from various organ (*nutrition in plants, transport in plants, respiration and growth*)
3. Understand how animals obtain nutrients to meet requirements during which raw materials and products are carried to different organs involved
4. Appreciates how human body coordinates various activities and adjust to ensure normal functioning (*coordination, homeostasis, osmoregulation*)
5. Appreciates how xtics are inherited passed to generation through reproduction and manifested as organisms; genetics, cell division, reproduction, growth and dev't

- Score per item in each EOC 15 MARKS
- Time duration 25 minutes
- Total duration 125 minutes
- Status of EOC: Scenario, Realistic/hypothetical type questions with support material (SM)
- Nature: All compulsory