

Science P1 marking scheme
PRIMARY TEACHER EDUCATION MOCK
MARCH 2019
P1 SCIENCE
MARKING SCHEME

1. (a) - High retention of knowledge;

- Attitude change is enhanced by reality on the ground;
- Impression caused by first hand experiences is long lasting;
- Reality on the ground provokes them to take action;

Any two correct 2 marks.

(b) - Ask learners to observe methods of conservation;

- Lead learners to discuss the methods;

Accepts any other factually correct response (2 marks)

(c) - contour farming;

- Terracing;
- Digging trenches;
- Mulching;
- Planting cover crops;

Any two correct (2 marks)

(d) - Retention of fertility;

- Retention of moisture
- Retention of structure;

(3 marks)

2. (a) (i) Which one of the following is **not** a lever?; (2 marks)

(ii) Comprehension; (1 mark)

(b) Awarding marks commensurate with the difficulty of the item;; (2 marks)

(c) -content;

- cognitive ability;
- totals;

(3 marks)

3 (a) By the end of the lesson, the learner should be able to show genuine interest in parts of a plant;;

(2 marks)

(b) - Samples of plants;

- Charts showing parts of plants;
- Pictures/ photographs/ videos of plants;

(c) Flowering plants; (1 mark)

(d) - Display samples of plants;

- Learners observe and identify parts of a plant;
- Learners draw the plant;
- Learners label the parts of the plant;

(4 marks)

(e) - Give accurate impression;

- For learners to get first hand experiences;
- Learners use senses to explore;
- Learners develop skills;
- Learners develop attitudes;

Any three, 3 marks

4 (a) - Syllabus;

- Teacher's guide/ Pupils' book;
- (2 marks)

(b) - Observe models/ charts/ pictures/ videos of the female reproductive organs;

- Draw and label the female reproductive organs;
- Discuss parts of the female reproductive system ;

Any 2, (2 marks)

(c) - Learning activities determine the form of assessment;

- Assessment items are based on the learning activities;
- Learners' responses reflect the impact off the activities;

(3 marks)

(d) – Chart showing female reproductive system;

- Models;
- Pictures/photographs/videos;

(2 marks)

(e) This statement does not reveal the strengths/ weaknesses of the lesson; and does not recommend how to improve;

(2 marks)

5 (a) - Cells;

- wires/ aluminum foil;
- bulb;
- materials: metal, plastic, wood, glass;

1/2 mark each (2 marks)

(b) (i) Practical; (1 mark)

(ii) - Learners explore on their own;

- Knowledge retention is enhanced;
- Learners develop skills;
- Learners develop attitudes;

(c) - Using wires, connect the bulb to cells so that it can light;

- Leave a gap in the circuit;
- Use the materials, one at a time, to complete the circuit and observe;

SECTION B

7 (a) - Scale: 1

- Axes: 1
- Plotting: 1
- Curve: 1

(b) Between 0 and 2 years; (1 mark)

(c) $(151 - 124) \text{ cm} / (13 - 7) \text{ years} = 27 \text{ cm} / 6 \text{ yrs} = 4.5 \text{ cm} / \text{ yr}$; (2 marks)

(d) The boy had reached maturity; (1 mark)

8. (a) Air thermometer; (1 mark)

(b) When the air temperature is high, the air in the bottle is heated; It expands and pushes the liquid in the tube downwards; The reading is taken; When the air temperature is low, the air in the bottle is cooled; It contracts and the liquid rises in the tube; The reading is taken;

1/2 mark each (3 marks)

9. (a) Using water for more than one purpose;; (2 marks)

(b) Treating used water; and then using it again; (2 marks)

10 (a) Through bites of a female anopheles mosquito;;(2 marks)

(b) Water vapor in the atmosphere condenses on the bottle;; (2 marks)

11.

Figure 2

(b) $M.A = \text{Load} / \text{Effort}$

$2 = 30\text{N} / \text{Effort}$;

$\text{Effort} = 30\text{N} / 2$

$= 15 \text{ N}$;

(2 marks)

12 (a) Photosynthesis takes place in green plants; yielding oxygen which is released into the atmosphere; (2 marks)

(b) - Paint sticking on walls;

- Ink marks sticking on paper;

- Chalk mark sticking on paper;

- Towels drying water;

Any two correct. (2 marks)

13 (a) - Rapid colonization;

- Faster maturity;

- Good characteristics passed on;
Any two correct. (2 marks)

(b) The patient is not in a position to diagnose the disease; and know the dosage; (2marks)

14 (a) (i) Mosquito; housefly; butterfly;

Any one correct. (1 mark)

(ii) Grasshopper; cockroach;

Any one correct. (1 mark)

(b) Addition of Sodium carbonate;; (2 marks)

15 (a) The action of an acid on a carbohydrate;;

(b) - Wearing gumboots when working in stagnant water;

- Killing snails;

(2 marks)

16. (a) Learners get to learn from experts;;; (3 marks)

(b) Brief him about the learners' level;

Guide him on language;

(c) They may be high-pitched;

Learners may take long to adjust; (2 marks)

(d) Ask questions;

Summarise the points;

(e) HIV and AIDS are caused by witchcraft

HIV and AIDS is a curse;

You can cure HIV and AIDS by having sex with a young virgin: