

**2019  
P1 SCIENCE  
MOCK  
MARCH 2019  
TIME: 2 ½ HRS.**

**INSTRUCTION TO CANDIDATES.**

- 1. This paper consists of TWO sections A and B**
- 2. Answer all questions in spaces provided.**
- 3. Candidates should answer the questions in English**

**FOR OFFICIAL USE ONLY.**

**SECTION A.**

<b>question</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>TOTAL</b>
<b>Candidates score</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>60</b>

**SECTION B**

<b>question</b>	<b>7</b>	<b>8</b>	<b>9</b>	<b>10</b>	<b>11</b>	<b>12</b>	<b>13</b>	<b>14</b>	<b>15</b>	<b>TOTAL</b>
<b>Candidates score</b>	<b>8</b>	<b>4</b>	<b>4</b>	<b>5</b>	<b>4</b>	<b>3</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>40</b>

**Grand Total**

**SECTION A 60 MARKS.**

1. The diagram below shows set of gears
    - (a) When the gear labeled R makes two complete turns in the direction indicated by the arrow, the gear labeled S will make
      - A Two complete turn clockwise
      - B \_\_\_\_\_
      - C \_\_\_\_\_
      - D One complete turn anticlockwise
- (i) Write down the missing responses (2mks)
  - (ii) Identify the key (1mks)
  - (iii) State ability being tested (1mks)

(b) The following are options to a multiple choice item

- A. Forceps
- B. Fishing rod
- C. Spade
- D. Crow bar

- (i) Provide a suitable stem for the above options (2mks)
- (ii) Indicate the key for the question (1mks)
- (ii) State two characteristics of a good question (2mks)

(2) A teacher in class 7 organized learners to carry out a role play on the sub-topic “Impact of HIV and AIDS on the family.”

- (a) State three reasons why the teacher used this method of teaching (3mks)
- (b) State two preparations which the teachers can make with the learners before the lesson. (2mks)
- (c) State two activities the teacher can engage learners in after the role play. (2mks)
- (d) State two advantages of role paly as a method of teaching (2mks)
- (e) Suggest two methods of controlling the spread of HIV and AIDS (1mks)

(3) In an activity to compare rate of conductivity of heat in iron, copper and wood the following materials were provided. Iron rod, copper rod, wooden rod, a tin with holes on the side, water, source of heat, plasticine, pins and wax

- (a) Draw a labeled diagram for the arrangement. (4mks)
- (b) Explain why aluminum is preferred to copper in high power transmission lines (2mks)
- (c) Name two safety precautions against lightning. (2mks)

(4) A standard 4 teacher planned to teach the topic “plants” and sub- topics “weeds”

- (a) Describe three activities the learners can engage in during the lesson. (3mks)
- (b) Describe a suitable activity to teach warmth is necessary for germination of seeds (3mks)
- (c) You plan to teach “uses of plants to human beings. Name three uses of plants you would include in the lesson and for each, a suitable learning resource. (3mks)

Use of plant	Learning Resource

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(5) The diagram below represents a set up that was used to demonstrate certain property of Matter.

(a) The property demonstrated was

- A Water exerts pressure
- B Water occupies space
- C Pressure in liquids doesn't depend on shape
- D Atmosphere pressure.

(i) State the key \_\_\_\_\_ (1mk)

(i) State the ability being tested \_\_\_\_\_ (1mk)

(b) State 3 disadvantages of multiple choice test to the learner (3mks)

(c) State two reasons why it is important for a teacher to ask oral questions during the Development of a lesson. (2mks)

(d) State the characteristics of a good matching type question (3mks)

(6) A teacher has been posted to a new School where she has been asked to teach Agriculture topics in standard VII.

(a) State the factors which the teacher should consider before developing a scheme of work for Science. (4mks)

(b) Give four ways the teacher would use to assess practical activities when teaching agricultural Subtopics in Science. (4mks)

(c) Name two methods of recording information Science (2mks)

### SECTION B (40MARKS)

(7) The number of animals in a game park were recorded every six months for a period of five years the results were recorded in the table below.

Time (months)	0	6	12	18	24	30	36	42	48	54	60
No. of animals	50	55	63	74	87	96	101	106	108	111	11

- (a) Draw a graph of the number of animals against time. (4mks)
- (b) Explain the shape of the graph from 0-24<sup>th</sup> month. (1mk)
- (c) Explain the possible cause of population trend from 24<sup>th</sup> -54<sup>th</sup> Month. (2mks)

(8) (a) Draw a well labeled diagram representing the human female reproductive system. (3mks)

(b) Briefly describe the process of birth in human beings after the labour has started to the time the baby is born. (2mks)

(9) (a) Draw a well labeled diagram of an improvised hair hygrometer. (3mks)

(b) Explain how the improvised hygrometer works. (3mks)

(10) In a monohybrid inheritance, a pure breed of mouse with black coat (BB) was interbred with a pure breed of mouse with white coat (bb).

(i) Using genetic crosses work out the F1 generation after F1 generation are interbred.

(b) Determine the genotype ratio of F2 generation are interbred (2mks)

(11) The diagram below represents incomplete circuit A and B.

Circuit A

Circuit B

On the diagram complete the circuit such that

(a) In A the cells are in series and the bulbs are in parallel

(b) In B the cells are in parallel and bulbs are in series. (2mks)

(12) The diagram below represents a set up that could be used to demonstrate a behavior of light.

(a) State the observation on the screen. (1mk)

(b) Explain the observation. (3mks)

(13) Explain the following observation

(i) It is necessary to make two holes in a sealed container to pour out a liquid easily (2mks)

(ii) When turpentine is added to water in a container, two layers are formed on addition to alcohol to the same container the layers disappear (2mks)

(14)(a) Suggest why polythene waste are environmental pollutants. (1mk)

(b) Give two ways of managing polythene waste so as to avoid environments pollution. (2mks)

(15) The diagram below represents a simple machine that can be used to raise a load.

Calculate the effort used to raise the load. (2mks)