

# SUCCESS ACADEMIC EXAMINERS (SA)

PRIMARY LEAVING MOCK EXAMINATION SET I, 2019



## INTEGRATED SCIENCE

Time Allowed: 2 Hours 15 Minutes

Index No.

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Candidate's Name: \_\_\_\_\_

Candidate's Signature: \_\_\_\_\_

School Name: \_\_\_\_\_

District Name: \_\_\_\_\_

DO NOT OPEN THIS BOOKLET UNTIL  
YOU ARE TOLD TO DO SO.

Read the instructions carefully:

1. This paper is made up of Sections A and B.
  2. Section A has 40 short-answer questions. (40 marks)
  3. Section B has 15 questions. (60 marks)
  4. Answer **All** questions. All answers to both Sections A and B must be written in the spaces provided.
  5. All answers must be written using blue or black ball point pen or ink. Diagrams should be drawn in pencil.
  6. Unnecessary alteration of work may lead to loss of marks. Any handwriting that cannot be read may lead to loss of marks. Do not fill anything in the boxes indicated.
- For Examiners' Use Only.

FOR EXAMINERS' USE  
ONLY

Qn. No.	Marks	Final M
1 - 10		
11 - 20		
21 - 30		
31 - 40		
41 - 43		
44 - 46		
47 - 49		
50 - 52		
53 - 55		
TOTAL		

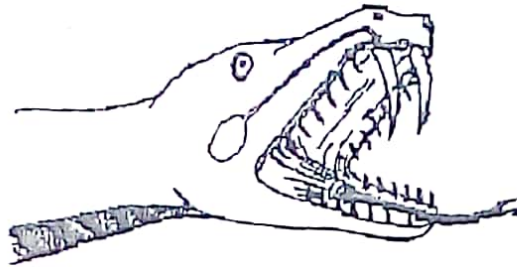
Turn Over

## SECTION A

Questions 1 to 40 carry one mark each.

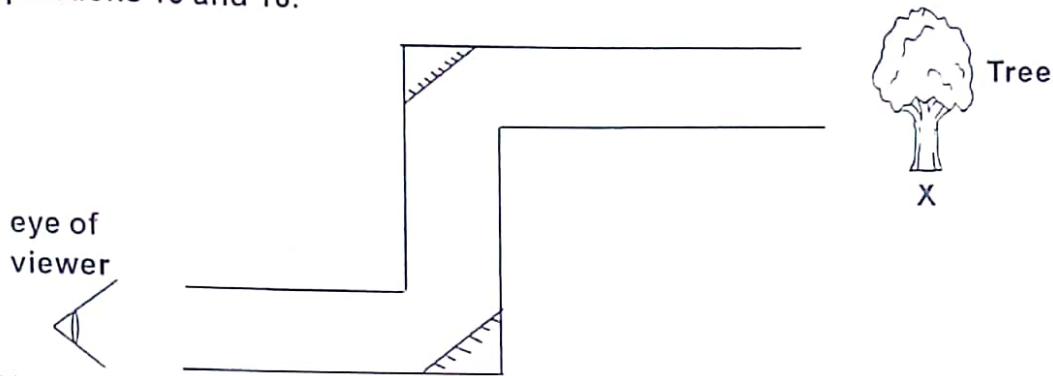
1. In which units is temperature measured?  
\_\_\_\_\_
2. State any **one** characteristic of wedged instruments.  
\_\_\_\_\_
3. Why is it a bad habit to eat a lot of sugary or starchy foodstuffs?  
\_\_\_\_\_
4. Name the type of teeth which are well developed in herbivorous animals.  
\_\_\_\_\_

Below is a head of a snake. Use it to answer questions 5 and 6.



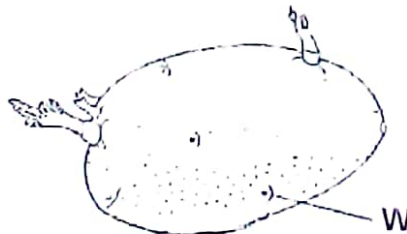
5. Under which type of snakes does the head shown above belong?  
\_\_\_\_\_
6. Give a reason to support your answer in number 5 above.  
\_\_\_\_\_
7. State the way in which the synovial fluids in movable joints is similar to grease in moving parts of machines?  
\_\_\_\_\_
8. What enables seeds of blackjack to be dispersed by animals?  
\_\_\_\_\_
9. Why is a dry cell called a primary cell?  
\_\_\_\_\_
10. By what means does sound produced by thunder in the sky reach us on earth?  
\_\_\_\_\_
11. State one way crops benefit from trees when grown together  
\_\_\_\_\_
12. Which method of making magnets does not involve use of other magnets?  
\_\_\_\_\_
13. How can natural brooding be of a disadvantage to poultry farmers?  
\_\_\_\_\_  
\_\_\_\_\_
14. Which delicate organ of the human body is protected by the cranium of the skull?  
\_\_\_\_\_  
\_\_\_\_\_

Below is a diagram showing an optical instrument . Use it to answer questions 15 and 16.



15. Name the optical instrument shown above.
16. Show on the diagram how the viewer will be able to see the tree.
17. Mention the property of air that enables people to inflate tyre tubes.
18. State any one way people who use hoes can protect them from the effects of rusting.
19. In the space below, draw the symbol for the component that completes an electric circuit.
20. What advantage can one get when applying a single movable pulley to do work?
21. Why is the part of the steven screen where delicate weather instruments are kept made from wood?
22. What happens to matter when cooled?
23. Why is it a good practice to plant cover grass in the school compound?
24. Name any one home appliance that converts electric energy to heat energy.

Study the diagram below and answer questions 25 ad 26.





25. Under which group of underground stem is the one shown above?
26. How is part marked **W** useful to the stem?
27. Give any **one** common parasite for rabbits.
28. In which region of the kidney does filtration of blood takes place.
29. Which vaccine when administered leaves a permanent scar on the right upper arm?
30. State any **one** factor that affects the speed of sound.
31. In which way is a zebra crossing useful on a busy road?
32. State any **one** importance of a child health card to a medical worker.
33. How is the epiglottis a useful structure on the respiratory system?
34. In which way does sickle cell disease affect the red blood cells.
35. What happens to children who lack enough vitamin C in their diet?
36. Which kind of electricity is generated from strong wind?
37. From which mineral is nuclear energy made?
38. Give the difference between gills of a mushroom and those of fish.
39. Why can't petrol fire be stopped by the use of water?
40. State **one** way in which food taboos are dangerous to growing children.

### SECTION B (60 MARKS)

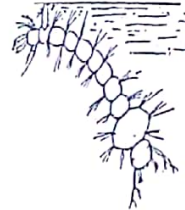
Questions 41 to 55 carry four marks each.

- 1 a) Which stimulus forces plant roots to grow downwards?
- b) How are the following tropisms important to plants.
  - i) phototropism
  - ii) hydrotropism

iii) thigmotropism

2. a) Mention **one** important resource got from fossils.
- b) In which way is the resource you have mentioned in part (a) above useful to people?
- c) Why are fossil resources said to be non-renewable?
- d) How are resources from fossils conserved in the environment.

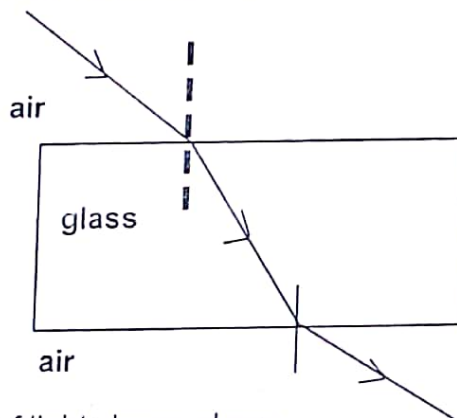
Study the life of cycle of a type of mosquitoes and use it to answer questions that follow.



- a) Use arrows to show the order of growth in the above life cycle.
- b) How important are features marked **M** to the pupa?
- c) Which germs are spread by the type of mosquito whose life cycle is shown above?
- d) In which way can mosquitoes be controlled at the Larva stage?
- a) State the difference between frequency and amplitude of sound.
- i) Give the factor that affects the volume of sound produced .
- ) How do soft materials help to reduce echoes in cinema halls?
- Why is sound produced at night heard more clearly than that produced during day?

45. a) State any **two** adaptation of electric bulb to its function of giving out light when the electric circuit is complete.
- i) \_\_\_\_\_
- ii) \_\_\_\_\_
- b) State any **one** advantage of using electricity for cooking in homes.
- \_\_\_\_\_
- c) Give **one** safety precaution one should remember when using electricity.
- \_\_\_\_\_
6. a) Give any **one** way of promoting the hygiene of an ordinary pit latrine.
- \_\_\_\_\_
- b) How different is ecosan latrine from an ordinary pit latrine.
- \_\_\_\_\_
- c) Why are toilet latrines not common in villages?
- \_\_\_\_\_
- d) For what reason is the squat hole of a VIP latrine supposed to be left open all the time?
- \_\_\_\_\_

Below is a diagram showing one of the behaviour of light. Use it to answer questions that follow.



- a) Name the behaviour of light shown above.
- \_\_\_\_\_
- b) What causes light to behave as shown above as it passes from air to glass and then to air?
- \_\_\_\_\_
- c) Apart from the behaviour shown above, name other **two** behaviours of light
- i) \_\_\_\_\_
- ii) \_\_\_\_\_
- a) Name any **one** breed of goats reared purposely for
- i) milk production \_\_\_\_\_
- ii) fibre production \_\_\_\_\_
- b) State **one** advantage a farmer who rears goats under zero grazing benefits
- \_\_\_\_\_
- c) Mention any **one** problem goat farmers commonly face.
- \_\_\_\_\_

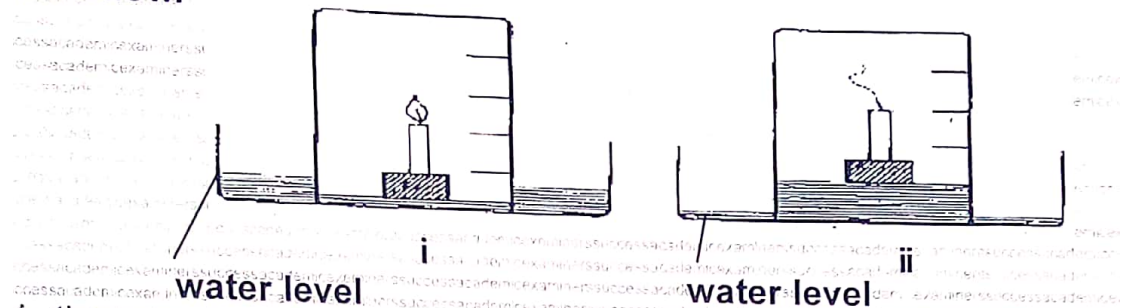


Razor blade

ne health problem a person may face due to poor personal hygiene

any one way of promoting hygiene of our clothes?

Experiment below about burning and use it to answer the  
that follow.



is the experiment above about?

did the candle flame go off after sometime?

the reason why the water level rose when the candle continued burning  
down in part (ii)

ch gas filled the jar in jar (ii) when the candle got off?

ch body immunisation site is used for administering the following

ines

DPT vaccine

Measles vaccine

ich disease for females is vaccinated against using HPV vaccine?

w do vaccines introduced in one's body boost his/her immunity?

ere in the human digestive system do we find the villi?

w are the villi adapted to their function of absorbing digested food into t  
od stream?

hat is the role of the saliva during digestion?

- d) Why are some foodstuffs absorbed directly in the blood stream without being digested.

**Match the items in list A with those in list B**

**List A**

- ) Cetaceans
- i) Crustaceans
- ii) rachnids
- v) Flightless birds

**List B**

- Tick
- penguin
- dolphin
- crabs

- ) Cetaceans \_\_\_\_\_
- i) Crustaceans \_\_\_\_\_
- ii) Arachnids \_\_\_\_\_
- v) Flightless birds \_\_\_\_\_

i) Name any **two** foreign bodies that can enter through our nose

- i) \_\_\_\_\_
- ii) \_\_\_\_\_

i) Give **one** way of administering first aid of a foreign object in the nose.

) Why is not advisable to remove a foreign object from the ears using a sharp object?

) Name **one** example of minerals replaced in the soil by adding artificial fertilizers to the soil.

) State **one** way of applying artificial fertilizers.

) How is excessive use of artificial fertilizers dangerous to the soil?

) Apart from excessive use of artificial fertilizers give **one** other human practice that damages the soil.

**END**