

# ACCESS ACADEMIC EXAMINERS (SAE)

PRE - PRIMARY LEAVING EXAMINATION SET VII, 2018



## INTEGRATED SCIENCE

Time Allowed: 2 Hours 15 Minutes

No.

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date's Name: \_\_\_\_\_

date's Signature: \_\_\_\_\_

al Name : \_\_\_\_\_

st Name: \_\_\_\_\_

OT OPEN THIS BOOKLET UNTIL  
ARE TOLD TO DO SO.

the instructions carefully:

This paper is made up of Sections  
A and B.

Section A has 40 short-answer  
questions. (40 marks)

Section B has 15 questions.  
(60 marks)

Answer **All** questions. **All** answers  
to both Sections **A** and **B** must be  
written in the spaces provided.

All answers must be written using  
blue or black ball point pen or ink.

Diagrams should be drawn in pencil

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 Mark
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.

Give one example of a fossil fuel .

Why are infants immunised against TB at birth?

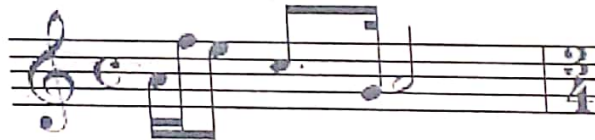
State the reason why one should wring clothes before drying?

What role do bacteria play in the production of alcohol by fermentation?

5. How are blood capillaries able to allow exchange of materials in the body?

6. Who is a drug dependant?

The diagram below shows a method of writing music . Use it to answer questions 7 and 8.



7. Name the method of writing music shown above.

8. How can the written music be useful to man?

9. Give the characteristic that makes birds different from other vertebrates.

10. Mention any **one** way of controlling tsetseflies in our environment.

11. State the first step in the process of preparing sugar salt solution (SSS).

12. By what process does heat travel through liquids?

13. How can the spread of diarrhoeal diseases be controlled in a community?

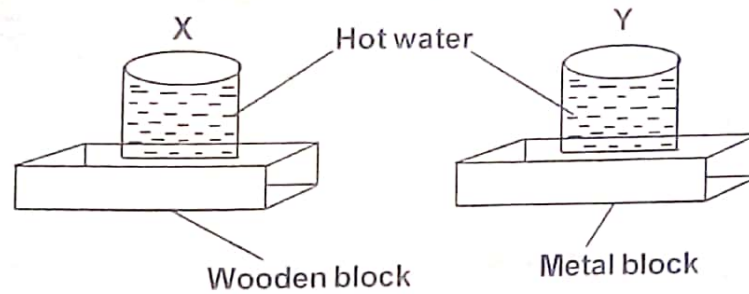
14. Give a reason why farmers dock female sheep.

15. How are clouds formed?

16. Why should boiled drinking water be covered in clean containers?

17. What problem do crop farmers in Uganda face today?
18. Give any **one** indicator of spoilt food.

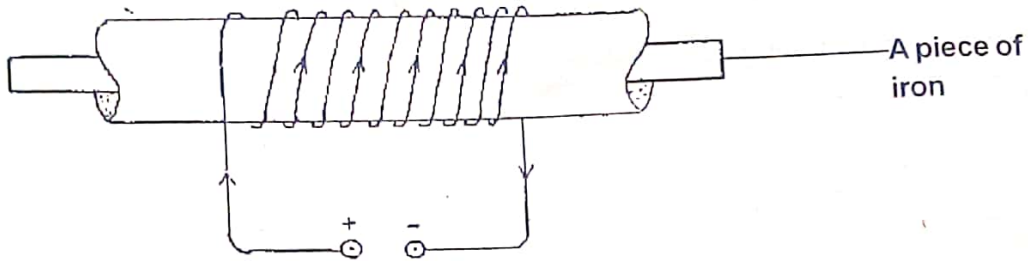
The diagram below shows two containers of the same size holding the same amount of water. Use it to answer questions 19 and 20.



19. In which container will water cool faster?
20. Give a reason to support your answer in number 19.
21. Name the part of the digestive system where emulsification of fats occur.
22. Give any **one** health concern in your community.
23. Write down any **one** example of drug abuse.
24. Mention any **one** factor that reduces the volume of blood in the body.
25. What can be done by a family to prevent deficiency diseases among its members?
26. Name the component of soil plants use to manufacture starch.
27. Name the germ that causes Newcastle disease in poultry.
28. At what stage of growth does a maize plant develop prop roots?
29. Why does a fish die after sometimes when it is removed from water?
30. How does an organisation like TASO help in the control of AIDS in Uganda today?



The diagram below shows a method of making a temporary magnet. Use it to answer questions 31 and 32.



1. Name the method of making a magnet shown above.
2. Using letter **N**, show the north pole on the piece of iron above.
3. Give **one** way through which scabies spread.
4. What first aid can you give a person that has been bitten by a poisonous snake?
5. Why is debeaking a very important activity in poultry management?
6. How does refrigerating preserve food?

The diagram below shows a human tooth . Use it to answer questions 37 and 38.



37. Name the tooth shown above .
38. How useful is the above tooth in human?
39. State **one** characteristic of molluscs.
40. Why should PHC activities be strengthened in the community?

### SECTION B (60 MARKS)

Questions 41 to 55 carry four marks each.

41. a) Name the gas fuel that is produced after fermenting animal and plant material.
- b) Give **one** animal product that can be used to produce the gas fuel named a

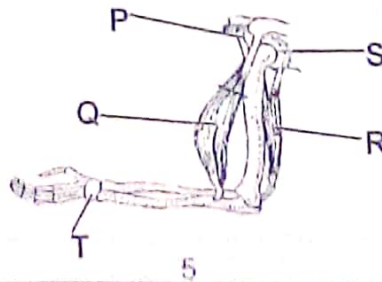
- c) How is the gas fuel named above useful to man?
- d) Why would you advise Ugandans to use the above gas fuel?

The diagram below shows the body structure of the cattle. Use it to answer the questions that follow.



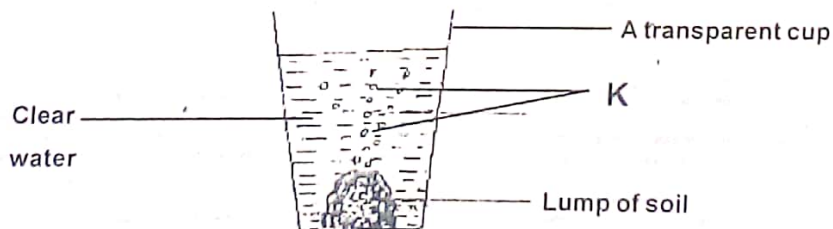
42. a) Name any **one** cow with the above body structure.
- b) Under what type of cattle can you group the cow with the body structure above?
- c) How can a cattle farmer improve the quality of the above type of cow?
- d) Give **one** problem faced by farmers who keep the cattle with the body structure shown above.
43. a) Give **one** example of a physical change in the environment.
- b) Write down any **two** characteristics of a chemical change.
- i) \_\_\_\_\_
- ii) \_\_\_\_\_
- c) How are biological changes useful in our environment?
44. a) In which unit is heat energy measured?
- b) Name **one** substance that can change from liquid state to gas state when heated?
- c) What happens to pure water at a temperature of 212°F?
- d) How can we conserve heat energy in the environment?

The diagram below shows a part of the skeletal and muscular system. Use it to answer the questions that follow.



- a) Name the part marked Q. \_\_\_\_\_
  - b) Give the function of part marked P. \_\_\_\_\_
  - c) How is part marked S similar to the synovial fluid in their function? \_\_\_\_\_
  - d) What type of joint is at part marked T? \_\_\_\_\_
6. a) How are the following animals useful to people?
- i) Earthworms \_\_\_\_\_
  - ii) Dogs \_\_\_\_\_
- b) Apart from being a source of food and firewood, give two other importance of plants to people.
- i) \_\_\_\_\_
  - ii) \_\_\_\_\_
- a) Write down any **one** characteristic of an essential drug. \_\_\_\_\_
- b) State **one** importance of essential drugs to people. \_\_\_\_\_
- c) Why is it dangerous to take drugs that have not been prescribed by a trained medical worker? \_\_\_\_\_
- d) What advice can you give your friend who abuses drugs to stop the habit? \_\_\_\_\_

The diagram below shows an experiment that was carried out by a P.7 pupil on soil. Study it and answer the questions that follow.

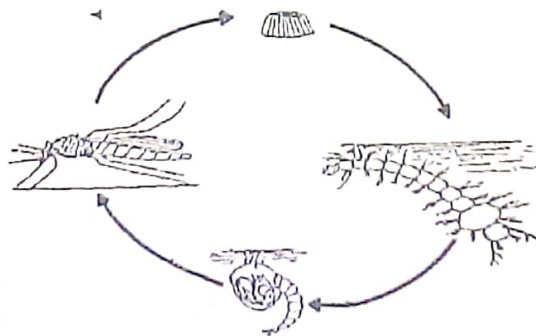


- a) What was the experiment about? \_\_\_\_\_
- b) Name the substance marked K. \_\_\_\_\_
- c) Why did the pupil use the transparent cup in the above experiment? \_\_\_\_\_
- d) How is soil useful to plants? \_\_\_\_\_



- ) Name **one** device that is used to reproduce stored sound.
- i) How does sound move from a teacher to pupils during a lesson?
- ;) What is the meaning of the term volume as used in the study of sound?
- d) State any **one** way echoes are important to people.
- a) Name the part in the reproductive system of man that produces sperm.
- b) Mention any **one** primary sex characteristic in girls.
- c) Give **one** way through which gonorrhea can affect the reproductive system of a boy.
- d) How can one protect himself /herself from the dangers of gonorrhoea?
- a) Name the enzyme that digests carbohydrates in the duodenum.
- b) Give the substance that provides acidic condition in the stomach.
- c) What happens to digested food in the ileum?
- d) Why does the ileum have finger-like structures called villi?

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



- a) Name the type of mosquitoes that undergo the above type of life cycle.
- b) How dangerous are the mosquitoes that undergo the above life cycle
- c) State the best way mosquitoes are controlled at the egg stage.

d) Besides mosquitoes, give **one** other example of insects that undergo the above life cycle.

a) In which degree of burns are blisters not formed on the skin?

b) Give a reason why a person who has developed blisters after getting burnt should regularly take enough water.

c) Why is it dangerous to break the blisters on skin after getting burnt?

d) What first aid can you give a person who has got burnt?

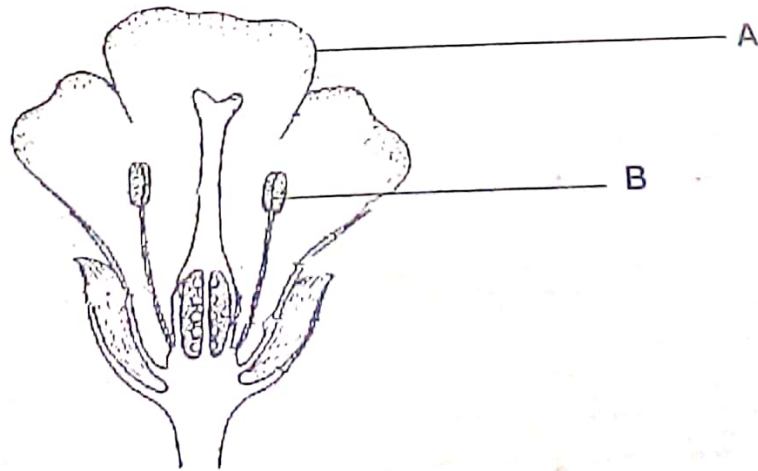
a) Name the blood vessel that drains blood from the lungs.

b) Give a reason why blood from the heart flows to the lungs.

c) Write down any **one** condition under which the heart beat of a normal person can increase.

d) State **one** way through which the heart can be kept in proper working condition

The diagram below shows parts of a flower. Use it to answer the questions that follow.



55. a) Name the part marked B.

b) How is part marked A useful to the flower?

c) What agent of pollination is likely to pollinate the above flower?

d) Give the succulent fruit that the above flower is likely to produce.

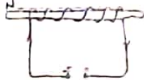
END



# SUCCESS ACADEMIC EXAMINERS (SAE)

## PRE - PRIMARY LEAVING EXAMINATION SET VII INTEGRATED SCIENCE

### MARKING GUIDE

NO.	Correct answers
1	Coal/Petroleum/Peat/natural gas
2	They are born without immunity against TB
3	To remove the excess water from the cloth
4	They cause fermentation/They ferment sugar
5	Their walls are one cell thick
6	A person who relies on a drug to perform a particular task
7	Staff notation
8	Can be sold to get money - Provide entertainment - For communication
9	<del>Their bodies are covered with feathers</del>
10	By spraying /By trapping
11	Washing your hands with clean water and soap
12	Convection
13	By proper disposal of faeces/By protecting water sources/By boiling drinking water
14	To ease mating
15	By condensation
16	To prevent recontamination
17	Drought /Flood/Pests and diseases/Poor breeds of crops/market
18	Smells bad/Changes tastes/Changes colour
19	Container Y
20	The metal block helps to conduct heat away from the water
21	Duodenum
22	Poor sanitation/Improve housing/Inadequate food supply/Smoking /Alcoholism etc
23	Cocaine/Opium/Alcohol/Marijuana/Heroine etc
24	Excessive bleeding/Severe hook worm infestation/Lack of iron in one's diet
25	Feed on a balanced diet
26	Water
27	Virus
28	At flowering stage
29	A fish will lack dissolve oxygen to breathe
30	Provide voluntary counselling to them - Provide free food supplements to them - Provide free ARVS to
31	Electrical method
32	
33	Through body contact with an infected person
34	Tie the pressure point between the bitten part and the heart
35	Controls vices (egg eating and cannibalism)
36	Keeps the germs dormant (in active)
37	Incisor tooth
38	For biting (cutting) food
39	Have soft and unsegmented bodies - Have tentacles - Some have shell
40	To prevent the spread of disease - To save lives

SECTION B	
41	a) Biogas b) Animal droppings and urine c) helps in cooking /Lighting d) Does not pollute air/Use of the above fuel conserve plants etc
42	a) Friesian/Jersey/Guernsey etc b) Dairy cattle c) By cross breeding d) Diseases/Drought/Feeds
43	a) Freezing/Melting/Condensation /Evaporation/Condensation/Deposition b) It can be reversed/A new substance is formed c) Leads to increase in the number of living organism
44	a) Joules b) Water c) It changes to water vapour d) By using clay lined charcoal stove for cooking - By using thermos flask for keeping hot liquids - By covering food while cooking
45	a) Bicep b) Connects a bone to a bone c) Both reduce friction d) Gliding joints
46	a) i) Can be used as baits when fishing, using the hook method ii) Provide protection (Guards peoples homes) b) Provide timber for building and making furniture - Source of oxygen - Provide shelter /shade - Provide local medicine
47	a) They should be cheap - They should meet people health needs - They should be safe when used well - They should be available in the community b) Cures disease - Prevent disease - Reduces pain c) Leads to drug overdose/drug underdose , drug poisoning d) I advise him/her to attend counselling, avoid friends who abuse the drugs' involve him/herself in sporting activities, go for rehabilitation etc
48	a) Soil has air b) Air bubbles c) To easily see the air bubbles d) Source of water/Source of nutrients
49	a) DVD , CD, Cassette tapes players/Piano/Key board etc b) Through sound c) Volume of sound is the loudness or softness of sound d) helps to determine the depth of sea - Used by pilots to detect obstacles haed during flight
50	a) Testis b) A girl starts menstrual period - The Ovary starts producing over etc c) Can block the sperm duct d) By abstaining from sex /By using condom when having sex etc
51	a) Pancreatic amylese b) Hydrochloric acid c) It is absorbed d) To absorb digested food /To incerase the surface area for absorption of digested food
52	a) Culex mosquitoes b) They spread filariasis / elephantiasis to humans c) By draining stagnant water where mosquitoes breed d) Tsetse flies, houseflies, butterflies, etc.
53	a) First degree burn b) To rehydrate the body c) To prevent germ infection, through open wound d) Dip the burnt part in cold, safe water
54	a) Pulmonary vein b) To pick oxygen (Get oxygenated) drop carbondioxide c) When one is sick, frightened, doing a vigorous physical exercise d) By doing regular physical exercises - By avoiding smoking - By avoiding eating food with too much fats
55	a) Anther b) Attract pollinators c) Insect d) Berry



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