

**BUGANDA EXAMINATIONS COUNCIL(BECO)
PRIMARY SEVEN MOCK EXAMINATIONS - 2023
BASIC SCIENCE & HEALTH EDUCATION**

Time Allowed: 2 hours 15 minutes.

Index No.

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Candidate's Name:.....

Candidate's Signature.....

School Name.....

District Name.....

Read the following instructions carefully:-

ONLY

1. The paper has two sections: **A** and **B**.
2. Section **A** has 40 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 a Blue or black ball-point pen or ink. Diagrams should be drawn in pencil.
6. Unnecessary changes of work may lead to loss of marks.
7. Any handwriting that cannot be easily read may lead to loss of marks
8. Do not fill anything in the boxes. They are for examiner's use only.

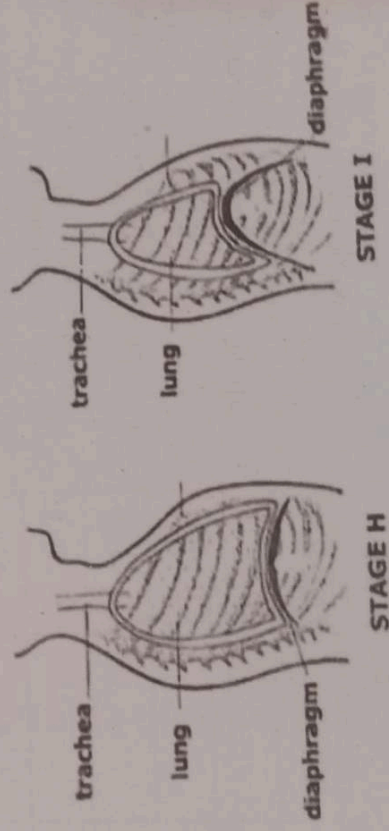
FOR EXAMINERS' USE

Qn.No.	Marks	Examiner's No.
1-10		
11-20		
21-30		
31-40		
41-50		
44-51		
47-52		
50-53		
53-54		
55		
TOTAL		

SECTION A

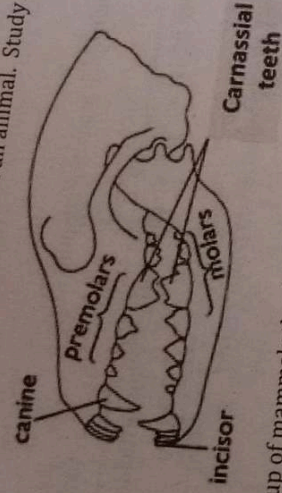
1. In which part of the body is carbondioxide removed from the blood stream?
.....
2. Which metal is commonly used to make cooking saucepans?
.....
3. Name the common vertebrates storage pest
.....
4. How can a farmer protect his lungs when spraying chemicals in the garden?
.....
5. How do people benefit from early morning sunshine?
.....
6. How is the process of making of charcoal dangerous to the atmosphere?
.....
7. When woman went for internal cares she was told that he pregnancy was 24 weeks, how many weeks was she left with to have a normal delivery?
.....
8. State one item contained in the mama kit?
.....
9. State one natural cause of air pollution in the environment.
.....
10. State one way HIV affects the population of an area?
.....

The diagram below shows a human respiratory system. Use it to answer question 12 and 13.



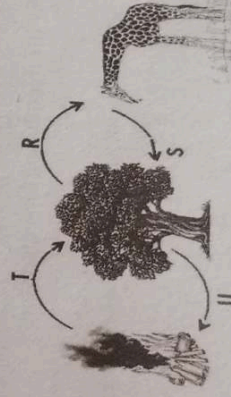
11. Which stages shows breathing out?
.....
12. How is the diaphragm useful in breathing in?
.....

The diagram below shows the jaw bones of an animal. Study and use it to answer questions 13 and 14.



13. Name the group of mammals that have the type of skull shown above.
.....
14. How is the function of the carnassial teeth different from that of the canines?
.....
15. Give one way in which pupils in class can maintain good posture
.....
16. What is the most recommended way of controlling the spread of HIV among adolescents?
.....
17. State one change that takes place in humans that shows that there is growth taking place
.....
18. State one way doctors use to identify the type of sickness someone is suffering from
.....
19. How do humans produce musical sound?
.....
20. How is a large family advantageous to the family members?
.....

The diagram below shows a process of movement of gasses



21. Which gas is indicated by letters U and R?
.....
22. How is the gas marked T and S useful in the environment?
.....
23. Name the organic soil component that is responsible for the soil fertility
.....

24. State atleast one mineral that is replaced in the body when one takes ORS.

25. Give any one way through which machines simplify work.

26. Mention one way storage pests can be controlled besides using pesticides.

27. How do the poultry vices affect production on poultry farm?

28. Name the immunisable disease that attacks the liver.

29. Which body parts of a fish helps to climb when moving upwards in water?

30. Write down the food value obtained from eating beans

31. Which sign can help a farmer to know that soil erosion is taking place in his garden?

32. Give one importance of keeping records on a livestock farm.

33. Which feature on a worker bee enables it to carry out cross pollination?

34. Write down the functional difference between the gills in fish and the gills in a mushroom.

35. How is it important to add calcium in the chicken feeds?

36. Name any one exotic breed of cattle kept for milk production.

37. Which state of matter has definite shape and volume?

38. What function is carried out by the liver during food digestion?

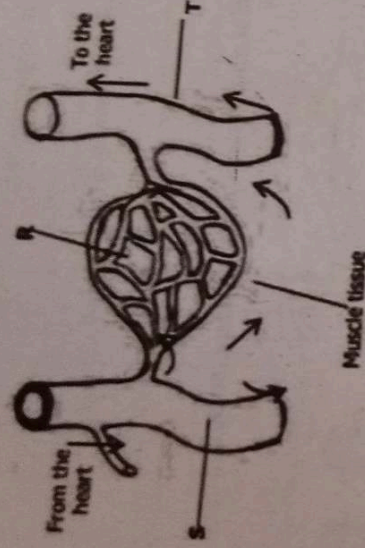
39. Name the growth shown in the diagram found on a piece of bread that has stayed for a week.



40. Give one importance of doing regular physical exercise to an individual.

SECTION B

41. The diagram below shows part of the circulatory system. Use it to answer questions 7 and 8.



- (a) Name the blood vessel marked S.
.....
- (b) State one reason for naming it as in (a) above.
.....
- (c) State one process that takes place at R.
.....
- (d) Why do blood vessels marked T have valves?
.....

42. Below are the activities carried out by a crop farmer.

tilling the land **clearing land,** **seedbed preparation,** **planting,** **weeding** **harvesting**

- (a) Put them in order of occurrence starting with the first activity.
.....
- (b) State the tool that is commonly used by farmers to carry out tilling activity
.....
- (c) Why are farmers advised to start planting during the start of the rainy season?
.....
- (d) Choosing from the above list state one farm activity recommended to be carried out during the dry season
.....

SECTION C

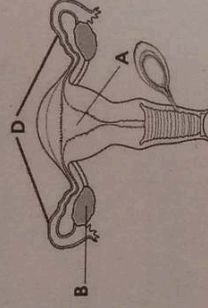
43(a) What is smoking?

(b) Give any one reason why peoples smoke

(c) State any two health effects of smoking on an individual.

- (i)
(ii)

44. The diagram below is of a human reproductive system. Study and use it to answer the questions that follow.



(a) Name part marked B.

(b) State one process that takes place in part A?

(c) Name one disease that affects the above system.

(d) Mention one operation carried out on part D that leads to permanent contraception.

45(a) What is a first aid box?

(b) Name any one content of a first aid box.

(c) How is a stretcher useful in giving first aid?

(d) Give any one way a traffic police officer is useful in controlling road accidents.

46(a) What is an electric current?

(b) Give any one use of electricity at school?

(c) Which units are used to measure electric currents in a circuit?

(d) State one way the school protects its learners from the dangers of lighting.

47(a) What is poultry?

- (b) Name any two methods of rearing poultry
- (i)
- (ii)
- (c) Give any one disadvantage of natural incubation
- 48(a) What is friction?
-

- (b) State any one disadvantage of friction.



- (c) Name the devices above that are used to reduce friction in moving parts of a machine
- (d) How can friction be increased in machines?

49. Below is a diagram of an intestinal worm. Study and use it to answer the questions that follow



- (a) Name the worm drawn above.
- (b) How does the above worm enter our bodies?
- (c) State the use of part M to the worm.
- (d) Give one sign that show presence of the above worm in a human body.

50(a) How do an animal benefit from plants during photosynthesis?

- (b) Name the food made by plants during photosynthesis.
- (c) Give the raw materials of photosynthesis
- (i)

(ii) Match the weather instruments A with their uses in B correctly.

LIST A

Hydrometer

Windsock

Anemometer

Wind vane

A. Hydrometer

LIST B

shows direction of wind

measures densities of liquids

measures strength of wind

measures speed of wind

B. Windsock

Turn over

C. Anemometer

D. Wind vane

52. The post below can be placed in a school compound to show PIASCY message. Use it to answer questions that follow.



- (a) What is PIASCY in full?
- (b) Write down any one PIASCY message that can be written on the post.
- (c) How is the PIASCY message written above important to a P.7 child in the school?
- (d) Give any one activity a teacher carries out during PIASCY sessions.
- 53(a) What is a sound?
- (b) Name any two devices used to store sound
- (i)
- (ii)
- (c) Give any one way of storing sound
- 54(a) Write down two types of pollination.
- (b) How are honey bees able to pollinate flowers?
- (c) What feature on some flower attracts insect pollinators?
- 55(a) What is mass?
- (b) Name two instruments used for measuring mass.
- (i)
- (ii)
- (c) State one difference between mass and weight.

END