

**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**

**FOR EXAMINERS' USE**

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.

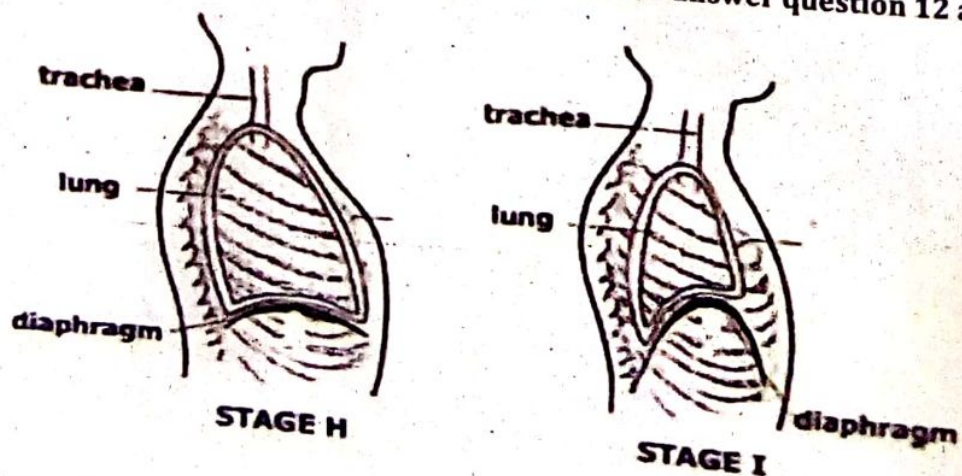
Qn.No.	Marks	Examiner's No.
1-10		
11-20		
21-30		
31-40		
41-50		
44-51		
47-52		
50-53		
53-54		
55		
TOTAL		



## 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?  
.....

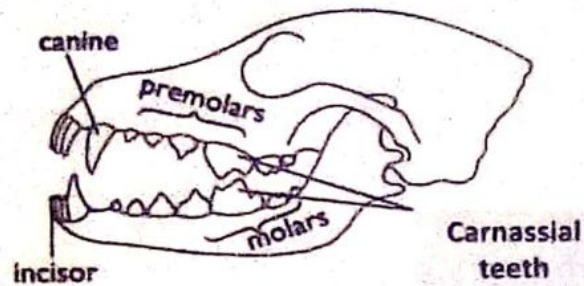
The diagram below shows a human respiratory system. Use it to answer question 12 and 13.



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

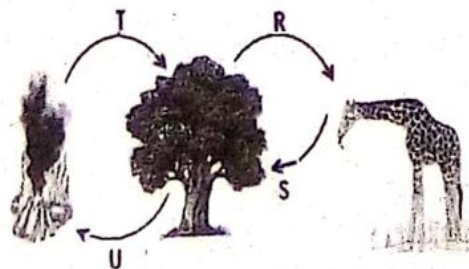


The diagram below shows the jaw bones of an animal. Study and use it to answer questions 13 and 14.



13. Name the group of mammals that have the type of skull shown above.  
.....
14. How is the function of the carnassials 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  
.....

Turn over

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.

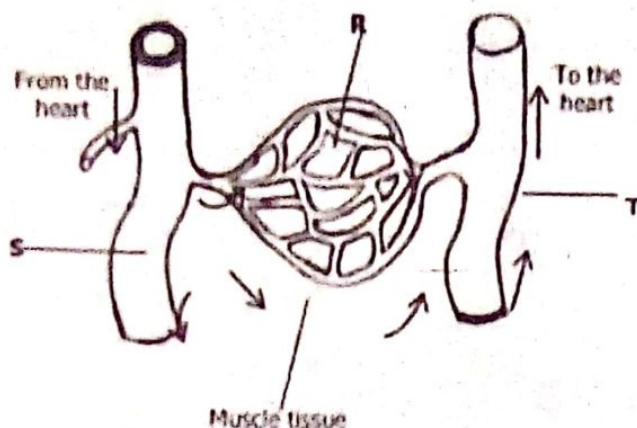


40. Give one importance of doing regular physical exercise to an individual.



## SECTION B

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



Name the blood vessel marked S.

State one reason for naming it as in (a) above.

State one process that takes place at R.

Why do blood vessels marked T have valves?

Below are the activities carried out by a crop farmer.

tilling the land

clearing land,

seedbed preparation,

planting,

weeding,

harvesting

Put them in order of occurrence starting with the first activity.

State the tool that is commonly used by farmers to carry out tilling activity

Why are farmers advised to start planting during the start of the rainy season?

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?

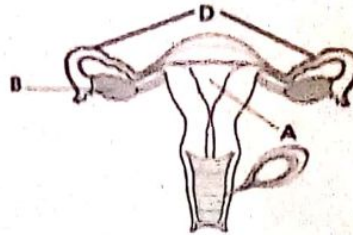
(b) Give any one reason why peoples smoke

(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 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?

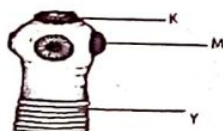
(b) State any one disadvantage of friction.



(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 shows presence of the above worm in a human body.

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

(b) Name the food made by plants during photosynthesis.

(c) Give the raw materials of photosynthesis

(i)

(ii)

51. 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

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.



**BUGANDA EXAMINATION COUNCIL  
MAKING GUIDE 2023  
SCIENCE  
SECTION A**

1. Lungs
2. Aluminum
3. Rat
4. Using a mask
5. Helps the body to make Vitamin D
6. It produces smoke/ carbondioxide that pollutes the air
7. 12 weeks
8. Plastic sheet, razorblade, cotton wool, gauze. Soap, gloves, cord ligature/cord ties (stings), sanitary pads.
9. Volcanic eruption, rotting matter, dust, pollen
10. Reduces the population by killing some
11. Stage H
12. Increase the chest volume (space)
  - It flattens or depressed to increase volume of chest cavity
13. Carnivorous mammals / carnivores
14. Carnassial teeth shear flesh from bones, crushing bones while canines are for tearing flesh
15. Sitting with straight back on the chair
  - Sitting when keeping both feet straight on the ground
  - Keep your knees and hips at the same level while sitting on the chair
  - Ensure that you use a desk that is high and big enough to provide space for your knees.
16. Abstaining from Sex
17. Increase in weight, increase in height
18. Using the signs and symptoms, testing samples taken from patient
  - Using radiographic machines i.e Xrays, Scans etc
19. Playing musical instruments, vibration of vocal cords to produce organized sound (singing), whistling
20. Work is easily done, there is security, they can help each other
21. Oxygen
22. Enables plants to make food, extinguishes fire
23. Humus
24. Potassium / Sodium
25. By changing direction of force
  - Reducing effort used
26. Trapping
  - Exposing to sunshine
  - Using rat gards
- Putting products in pest proof containers
- Rearing pest natural enemies
27. They reduce eggs produced
  - Cause death some birds
28. Hepatitis
29. Pelvic fins
30. Proteins
31. Rills or gullies in the garden
  - When things that were covered get exposed after rainfall
  - Silt collecting down hill
32. To determine whether farmer is making profit or loss
  - Helps when getting loans
  - Helps when paying taxes
  - For better farm planning
33. They hairs on the body
  - The pollen basket
34. Gills in fish are for breathing while in mushroom are for producing and storing spores
35. To make the egg shells hard,
  - Harden their bones
36. Friesian, Guernsay, Jersey, Brown Swiss
37. Solid state
38. Produces bile used to digest fats
39. Moulds
40. Helps to manage weight
  - Strengthens bones and muscles
  - Improves brain health, reduce risk of respiratory and circulatory diseases, improves digestion, improves muscle tone.
  - Wilting, drying of leaves; weakening of leaves
41. a) Artery
  - b) It transports blood from the heart to other parts of the body
  - has thicker walls
- c) Respiration
- d) To prevent back flow of blood
42. a) Clearing land, filling the land.
  - Seed be preparation
  - Planting, weeding
  - Harvesting
  - b) Hand hoe
  - c) So that plants get enough water to grow
  - d) Harvesting, clearing land
43. a) The regular and frequent use of tobacco



- b) To relax, To concentrate
- c) Causes lung cancer

- Causes emphysema

- Shortage of breath

44. a) Ovary

b) Development of the foetus,  
Implantation

c) Syphilis, Gonorrhoea, genital warts,  
Candidiasis

d) tubal ligation / cutting and tying the  
tubes

45. a) A container where first aid  
materials are kept

b) Bandage, razorblade, gauze, surgical  
spirit, iodine, plaster, cotton wool

c) For carrying a casualty who cannot  
walk

d) manages traffic flow, create order on  
the road, enforces traffic laws on the  
road

46. a) Flow of electrons

b) Lighting, Cooking, running machines

c) Amps/ Amperes

d) Installing lighting conductors

- Teaching learners the dangers of  
lightning

47. a) Poultry are domestic birds

b) Free range, Battery (cage) system,  
Fold pen system. Deep litter system.

c) Few eggs are incubated,

- it cannot be programmed

- predators can easily eat the eggs

- chicken can abandon the eggs before  
they hatch

48. a) A force that opposes motion

b) Causes wear and tear

- Produces unnecessary heat or sound,  
wastes energy

c) Ball bearing

d) Making the surfaces in contact rough

49 a) Tapeworm

b) By eating under cooked meat with  
tapeworm eggs

c) To attach the tapeworm to the host

d) Eggs of worms in the faeces

50. a) animals get oxygen

b) Starch

c) i. Water ii. Carbodioxide.

51. Hydrometer - Densities of  
Liquids

Wind sock - Strength of wind

Anemometer - Speed of wind

Wind vane - Direction of wind

52. a) Presidential initiative on AIDS  
Strategy for communication to youth.

b) Say No to :- bad touches, Early  
Marriages,

HIV and AIDS Kills, Do not take gifts for  
Sex.

c) Depends on response

d) Counselling, making awareness about  
AIDS, Supporting AIDS Victims, Act  
plays about effect of AIDS and AIDS  
Transmission.

53. a) Form of energy produced by  
vibrations

b) Magnetic Tapes, Computers, discs,  
microchips.

c) recording the sound, writing the music

54. a) Cross pollination, Self-pollination

b) They have hair that transports pollen

- They have pollen basket

c) The coloured petals

55. a) Quantity of matter in an object

b) beam balance, weighing balance

c) Mass is quantity of matter in the object  
while weight is a force of gravity on an  
object.

END