

BUGANDA EXAMINATIONS COUNCIL (BECO)

PRIMARY SEVEN PRE-P.L.E. 2022

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: -

FOR EXAMINERS' USE ONLY

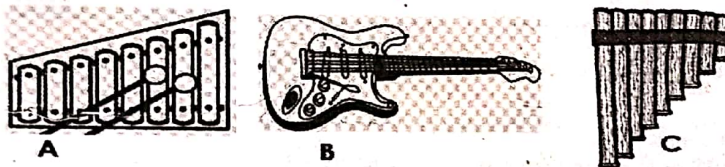
1. The paper has two sections: **A** and **B**.
2. Section **A** has 40 questions (40 marks)
3. Section **B** has 15 questions (60 marks)
4. Answer **all** questions. All answers to both sections **A** and **B** must be written in the spaces provided.
5. All answers must be written using a Blue or black 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.

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

1. Which one components of blood is attacked by HIV?
.....
2. Name one of the artificial fertilizers used in agriculture?
.....
3. Of what importance is fibre or roughages in the human diet?
.....
4. State one characteristic of reptiles that differentiates them from amphibians.
.....
5. What safety measure should be observed when handling electric current?
.....
6. State one factor that will determine the rate at which water drains in the soil.
.....
7. Which social effect of drug abuse is likely to affect one's education?
.....
8. State one crop growing practice that conserves soil moisture and adds nutrients to the soil.
.....
9. Pupils set up an experiment as shown in the diagram below.

State what will happen to the fan when steam starts to come out as shown in the experiment above?
.....
10. How is the above idea used to promote peoples' standard of living in daily life?
.....
11. What challenge will a farmer who keeps many animals in a small paddock likely to face?
.....
12. What simple machine does a person who is repairing a punctured tyre use to raise one side of the car?
.....

13. State an example of a mixture that can be separated using a horse shoe magnet.
.....
14. Which gaseous raw material is used during the process of photosynthesis?
.....
15. Why is it important to keep doors, windows and ventilators open during day time?
.....
16. Why is it important to read the labels on the tinned food and medicine packets before buying them?
.....
17. The diagrams below show music instruments. Study them and use them to answer questions 17 and 18.



- Which letter shows a percussion instrument?
.....
18. Why are the pipes in instrument C made of different lengths?
.....
 19. State one activity done daily to promote oral hygiene?
.....
 20. Which body part of a fish allows dissolved oxygen to enter its body?
.....
 21. Why is a person who has accidentally cut himself with a razorblade advised to cover it with a plaster?
.....
 22. **Condensation, rainfall, evaporation, cloud formation:** these are processes that take place during the water cycle. Rewrite them in their order of occurrence.
.....
 23. Give one reason why handles of cooking utensils and ironing boxes are made of wood or plastic.
.....
 24. Why should sick people be given special care?
.....
 25. Of what importance is a lateral line to a fish?
.....

The diagram shows a tool commonly used when washing hands at home. Use it to answer questions 26 and 27.



26. Name the tool shown above.
.....
27. Using letter L show the position of the effort.
.....
28. Name the structure that joins bones to muscles.
.....
29. Mention one measure taken by the government of Uganda to fight against the spread of malaria.
.....
30. How is the habit of bees visiting flowers important to plants?
.....
31. How does refrigeration prevent food stuffs from going bad?
.....
32. Mention one animal that uses echoes in its movement.
.....
33. State one reason why you would prefer artificial insemination to natural insemination in cattle keeping?
.....
34. Besides using a child health card, how else can you identify a child who was immunised against tuberculosis?
.....
35. Name one pest that attacks root crops.
.....
36. In which system of farming can a farmer harvest both wood and crops?
.....
37. Why should drugs be kept away from children's reach?
.....
38. Name any one weapon that can be used by mammals to defend themselves.
.....
39. Why is the process of rinsing necessary when washing clothes?
.....
40. Give a reason why it is not advisable to dry wet timber under direct sunshine?
.....

SECTION B

41 a) Name the organ that removes urine from the body.

.....

(b) To which body system does the body organ in (a) above belong?

.....

(c) Where is urine collected before it is removed from the body?

.....

(d) Name one dangerous substance found in urine.

.....

42 (a) Mention one breed of cattle commonly kept for beef.

.....

(b) What system of grazing cattle can one use when handling three cows in an urban place?

.....

(c) Why is pasteurization a better method of preserving milk than sterilization?

.....

(d) Mention any one way of preventing viral diseases in cattle management.

.....

43(a) What type of soil has the highest capillarity?

.....

(b) State one use of soil to man.

.....

(c) How can you improve on the fertility of soil without applying artificial fertilizers?

.....

(d) Give one danger of excessive application of artificial fertilizers.

.....

44(a) By what process does heat travel through in a vacuum?

.....

(b) State any one effect of heat on matter.

.....

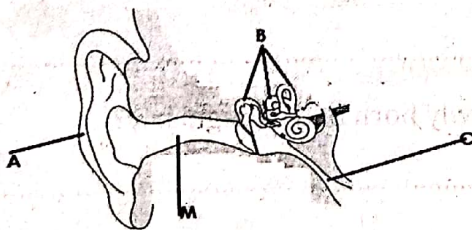
(c) How is heat energy useful in our daily life?

.....

d) Why is it advisable to wrap someone who is being burnt by fire in a blanket?

.....

45. The diagram shows a human ear. Use it to answer questions 44 that follow.



- (a) Name the part labeled M.
.....
- (b) Give the role of the parts marked A during the hearing process.
.....
- (c) Which letter represents the part that equalizes the pressure in the ear to the atmospheric pressure?
.....
- (d) Why is it not advisable to expose the ears to very loud noise?
.....

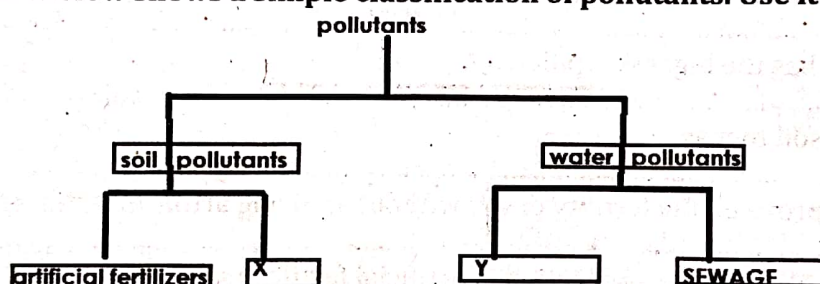
46 a) Which recommended practice helps to protect buildings from being struck by lightning?
.....

b) State the energy change that occurs in an electric bulb when a circuit is completed.
.....

(c) In which device is the use of a magnet needed to produce electricity?
.....

Name one source of electricity that pollutes the environment?
.....

47 The chart below shows a simple classification of pollutants. Use it to answer question 46.



(a) Give an example of pollutants that can be represented by X and Y
X Y

(b) State one effect of pollutants to people's health.
.....

(c) What organization in Uganda helps to control pollution of the natural resources?
.....

48(a) Name the best food for babies below two years.
.....

(b) Why is it ~~not~~ good for mothers to breast feed their newly born babies regularly?
.....

(c) At what age is it advisable to start the weaning of babies?

.....

(d) Why is solid food given to the babies at the stage mentioned in C above?

.....

49 a) What term is used to describe the doctor's writings in the diagram shown?

.....

b) How many spoons should a patient take whenever she is taking the medicine

.....

(c) Why does the doctor advise the patient to shake this medicine before taking it?

.....

(d) What is likely to happen if the doctor's instructions are not followed when taking medicine?

.....

50 a) Give one reason why farmers clubs are important in a school.

.....

b) Mention one activity that can be done by a school farmers club.

.....

c) In case a school does not have a school garden, state one thing that can be used for the crop growing demonstration lesson.

.....

d) Name one fruit vegetable crop that can be grown by the school young farmers club.

.....

51a) Name one agent of seed dispersal in the environment.

.....

b) State two characteristics of seeds dispersed by wind.

(i).....

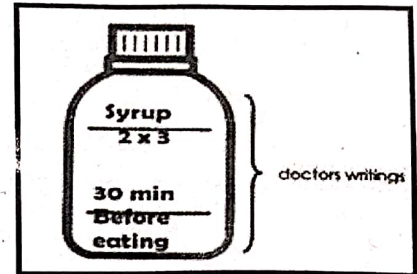
(ii).....

(c) Give one importance of seed dispersal to the environment

.....

52a) Why do animal need homes?

.....



b) Name one natural home for rodent animals.

.....

c) State two ways the government of Uganda cares for the wild animals in the game park.

i).....

ii).....

53 a) What is a ray of light?

.....

b) What name is given to a ray of light ~~from the source~~ that hits a plane mirror?

.....

c) State one effect of a ray of light striking an opaque object.

d) How is a rainbow formed?

.....

54.



a) Name the part named W.

b) Name one fungal disease that affects the body part shown.

c) How do people protect the foot from physical injuries?

d) Name one tool that can be used to trim part W.

55.a) Mention one reason for carrying out demography.

.....

(b) State one piece of information recorded during demography.

.....

c) Give two problems people who live in an over populated community are likely to face.

(i)

(ii)

END