



Dr. Bbosa Science

UGANDA NATIONAL EXAMINATION BOARD  
PRIMARY LEAVING EXAMINATION



Science 2012

Time allowed: 2 hours 15 minutes

Index No:

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Candidate's Name.....

Candidate's signature.....

District Name.....

Read the following instructions carefully

1. This paper has two sections **A** and **B**. Section **A** has 50 questions and section **B** has 5 questions. The paper has 15 pages following altogether.
2. Answer all questions. All answers to both sections A and B must be **written** in the spaces provided.
3. All answers must be written using a blue or black ball-point pen or ink. **Any** work written in pencil other than graphs, pictures and diagrams will **not** be marked.
4. Unnecessary change of work may lead to loss of marks.
5. Any handwriting that cannot easily be read may lead to loss to marks.
6. Do not fill anything in the boxes indicated:
7. "For examiners'. Use only and inside the question paper

FOR EXAMINERS USE ONLY		
No	MARKS	EXR'S NO.
1-10		
11-20		
21-30		
31-40		
51		
52		
53		
54		
55		
Total		

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1. Give any one example of a root tuber

Cassava



Sweet potato



carrot



2. State one disadvantage of keeping finger nails long.



They keep germs

3. What is the importance of including calcium in chicken feed?

- to lay eggs with hard shells

- to strengthen bones

4. What is the use of a wedge as a simple machine?

For cutting e.g. axe;

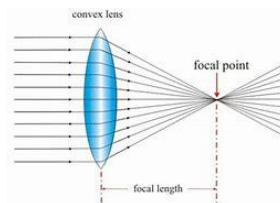


Digging e.g. hoe



5. Name the type of lens used to correct long sightedness

convex lens or converging lens



The diagram below shows a person with an injury .Use it to answer question 6



6. How useful is the structure marked **M** to the injured person?

Keep the injured arm in one position

7. Apart from mosses, give one other example of a spore bearing non-flowering plant

Fern



liverwort



moss



8. Name any one mammal that lives in water.

Whale,



dolphin,



hippopotamus,



seal



9. Give a reason why people keep cats in their homes.

To kill snakes, rats and lizard:



Kept as pet



10. Why does a farmer cut off leaves of a banana sucker before planting it?

To reduce the rate of transpiration



11. Apart from pasteurizing, give any one way milk can be prevented from going bad.

- Boiling
- Refrigeration
- tinning

12. Why is it important for a husband and his wife to be treated together if they have got gonorrhoea?

To prevent reinfection

13. Why do farmers carry out de –beaking in poultry farms?



Debeaking is cutting of poultry to prevent cannibalism and egg eating

14. State any one habit which helps to promote oral health.

Brushing teeth;



cleaning the tongue

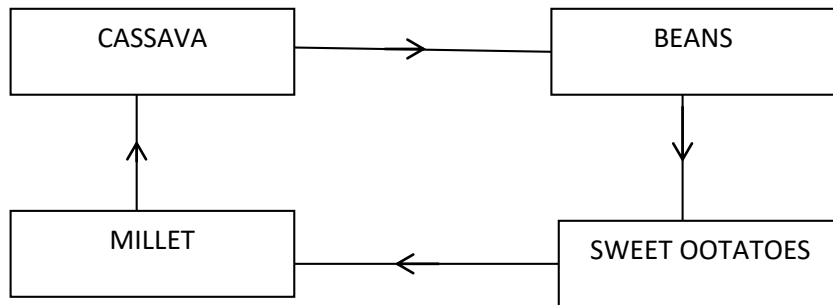


15. State one use of soil to earthworms.



Soil is a home for earthworm

The diagram below shows a crop rotation cycle



16. What is the importance of beans in this cycle to the rest of the crops?



Beans contain bacteria in root nodules that fix nitrogen to the soil

17. Which communicable disease in human affects both the skins and the skeletal system?

## Leprosy and polio



18. Apart from carbohydrates, name one other class of food that gives the body energy.

Fats, oil, lipids

19. In which way is the sun important in the formation of rain?

Causes evaporation of water bodies

20. State any one method used to make dirty water clean.

- Filtration
- Distillation
- Decanting

21. How does a sweater help to keep a person warm during cold days?

A sweater prevents heat loss



The diagram is a head of a bird .use it to answer question 22



22. What does a bird with this type of beak eat?

Hard seeds

23. Give any one affect of poor disposal of human wastes in the environment.

Spreads diseases like cholera

Cause bad smell

24. Apart from the egg stage, at what other stage of development is a housefly not active?



25. Why does a clay-made charcoal stove use less charcoal than a metallic one?

Clay stove retain more heat than metallic ones

Clay stove conserve heat for a long time.

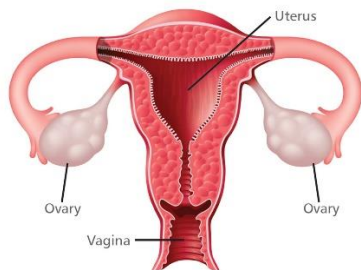


Metallic stove



Clay stove

26. Apart from production of eggs (ova), mention one other use of the ovaries in the human body.



Ovary produce hormones such as estrogen and progesterone

27. State one way in which a child gets natural immunity

By suffering from disease and recovering from it

From breast milk



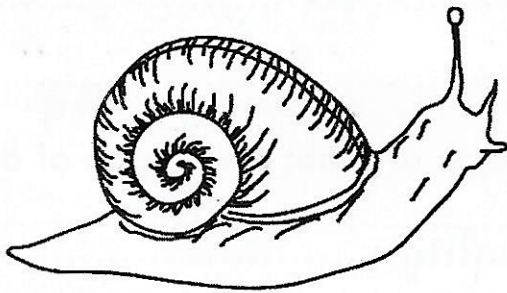
28. State the injury that results from tearing of muscles.

strain

29. Which gas is used by food manufacturers for preserving drinks like sodas?

Carbon dioxide

**The diagram below is of a common animal. Use it to answer question 30**



30. Which disease does the above animal spread humans?

Bilharzia or schistosomiasis

Symptoms of bilharzia

Fever, Abdominal pain (liver/spleen area), Bloody diarrhea or blood in the stools, Cough, Malaise; Headache, Rash, Body aches

31. Why are the legs of a person who has fainted raised higher than the head as a way of giving first aid?





## Fainting First aid Tips

Raising legs allows more blood supply to the brain

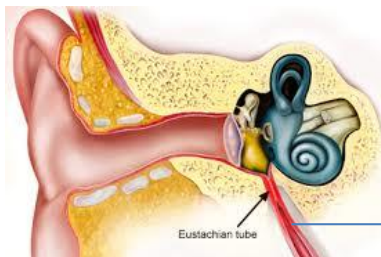
32. What name is given to a place where seedlings are grown before transplanting?

Nursery bed



33. Which part of the human ear equalises pressure in and outside the ear?

Eustachian tube



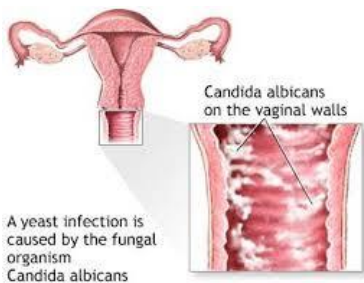
Eustachian tube

34. Name one other disease caused by fungi in human s apart from ring worm.

Candida

oral thrush

Dhobis itch



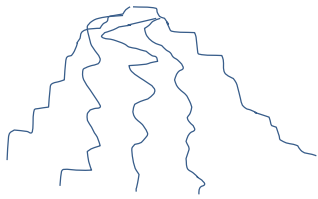
35. What class of food is digested in the stomach?

## Proteins

36. Give any one advantage of castrating farm animals.

- prevent poor bread
- prevent venereal diseases
- make male easy to handle

37 in the space below draw a simple diagram of a fibrous root system.



NB: In fibrous root system has small sized of the same size.

38. How are plastics and glass materials dangerous to soil?

- prevent water from entering the soil and can cause water logging

39. Apart from liquids, name one other state of mater through which heat is transferred by convection.

## Gas

40. In which human body organ does gases exchange take place?

In the lungs



**SECTION B: MARKS 60 MARKS**

Questions **41** to **55** carry four marks each

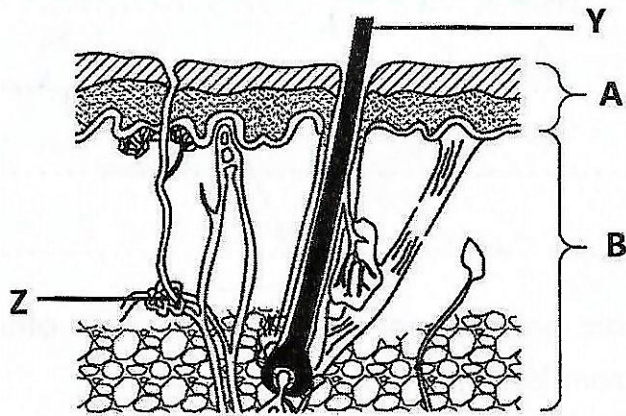
41(a) Gives any two example of a physical change

- melting of ice
- Evaporation
- Gas to solid
- Melting candle wax

(b) State two characteristics of a chemical change

- Heat is given out
- Form new substance
- Are irreversible
- Permanent change

The diagram below of a human skin. Use it to answer questions 42



42.(a) Name the layers A and B

(i) A- Epidermis

(ii)B- Dermis

(b) Give the function of the part labeled Y and Z

(i) Y- insulate the body

(ii) Z – secrete sweat

43. (a) Name the two types of pollination in flowering plants

- self-pollination
- cross pollination

(b) Write any two agents of pollination

- Insects
- Wind
- Animals
- Running water

44. (a) Give any two disadvantages of keeping local breeds of poultry

- Take long to mature
- Produce a few eggs.

(b) Apart from getting money, give any two ways a farmer benefits from keeping poultry.

- Get meat
- Get eggs
- get manure

45. Match each animal in A with the correct group to which it belong in B

A	B
Chameleon	Mammals
Toad	Birds
Bat	Reptiles
Ostrich	Amphibians

(a) Chameleon - reptile

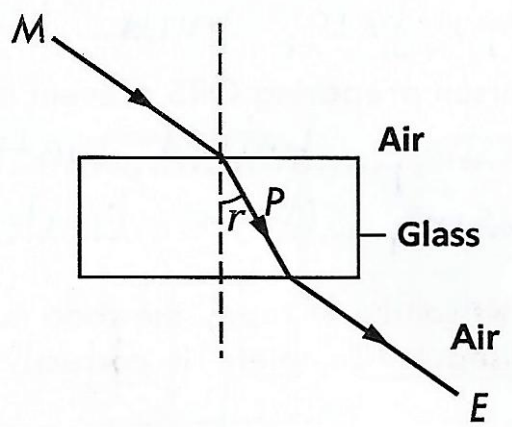
(b) Toad - amphibian

(c) Bat - mammal

(d) Ostrich – bird

The diagram below shows how light passes through a glass block.

Study and use it to answer question 46.



46. (a) Name the rays M and P

(i) M – incident ray

(ii) P – Refracted ray

(b) Name the angle marked  $r$

Angle of refraction

(c) Give a reason why ray  $P$  bend as shown in the diagram

Light is moving from less dense medium to a denser medium



47(a) Give one reason why dehydration is dangerous to humans

- can lead to death
- it weakens the body

(b) In which way is oral rehydration solution (ORS) a good treatment for diarrhea?

Replaces lost water, and mineral

(c) Apart from taking ORS, how else can one prevent dehydration?

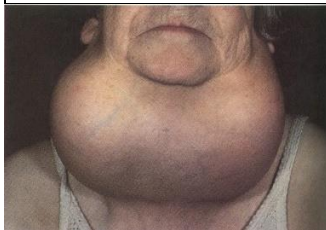
- Take a plenty of water
- Eating juicy fruits like paw paws

(d) How can a person preparing ORS prevent it from contamination?

- By using boiled water
- By using clean containers
- Wash hands before preparing it

48. The table below, shows source of food, the food nutrients in it and the related deficiency disease. Complete it correctly.

Source of food	Food nutrient	Deficiency disease
Fruit	Vitamin C	<u>Scurvy</u>
Beans	<u>proteins</u>	Kwashiorkor
<u>Fish liver, Eggs, carrots</u>	vitamin	Night blindness
Iodized salt	Iodine	Goiter



Goiter

49. (a) Which type of blood vessels return blood to the heart?

Veins

(b) What is the function of valves in the blood vessels during blood circulation?

Allow blood to flow in one direction

(c) What type of blood is carried by most blood vessels with valves?

Deoxygenated blood

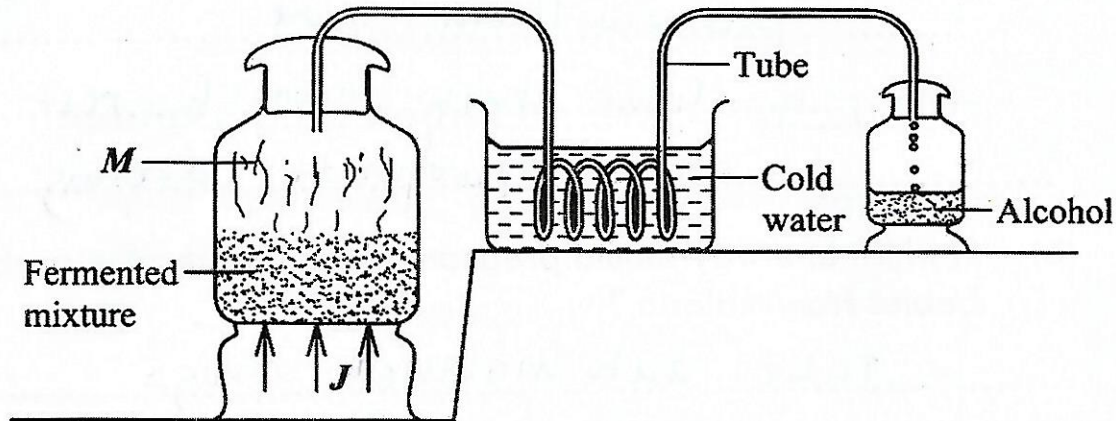
(d) Give any one waste materials carried by blood.

Urea

Uric acid

Carbon dioxide

The diagram below shows one of the methods of preparing alcohol. Study and use it to answer questions 50.



50(a) Name the methods used in the diagram

Distillation

(b) What do the arrows labeled *J* represent?

Heat

(c) Why is the tube passes through cold water?

To condense the alcohol vapour

(d) What process forms *M*?

Evaporation

51(a) Apart from ante –natal care, give two other ways of caring for pregnant women.

- (i) Provide a balance diet
- (ii) Show them love
- (iii) Give them enough rest
- (iv) Give appropriate dressing

(b) In which one ways should pregnant women protect their unborn babies from malaria?

Take antimalarial like Fansidar

Sleep in mosquito treated nets

Use mosquito repellent

(c) Why are pregnant women advised not to smoke?

To avoid premature death

Avoid lung cancer

Avoid still birth

52. (a) Name the force that brings down all objects thrown up.

Gravity

(b) (i) When a piece of paper and a rubber dard are dropped from the same height, which one reaches the ground first?

Rubber

(ii) Give a reason for your answer in (b) (i) above.

Rubber experiences less air resistance than paper

(c) Why do some objects float on water?

They are less dense than water

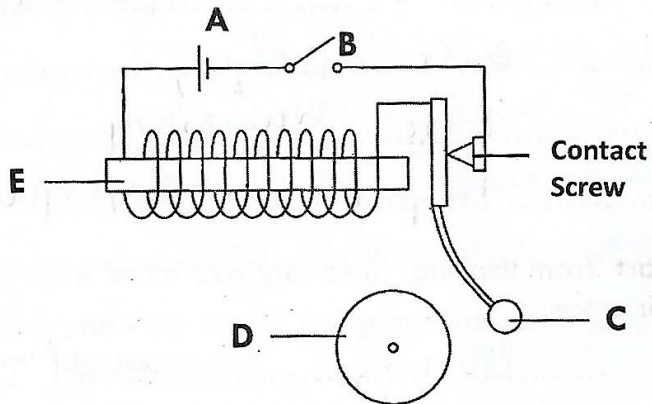
53. (a) State any two reasons why farmers thin their crops

- to reduce transpiration

- to increase light penetration



55. Study the diagram of an electric bell below and use it to answer question 55.



55(a) Name the part marked A and C

- (i) A Dry cell
- (ii) C hammer

(b) What will happen to E when B is closed

Become magnetized

(C) How useful is part D on the electric bell?

Produce sound



END