



Dr. Bbosa Science

UGANDA NATIONAL EXAMINATION BOARD
PRIMARY LEAVING EXAMINATION



digitalteachers.co.ug

Science 1995

Time allowed: 2 hours 15 minutes

Index No:

--	--	--	--	--	--	--	--	--

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

©1995 Uganda National Examination board

SECTION A

1. Bbosa caught fish to feed for a month. Suggest one way by which Bbosa's family can safely keep the fish to last one month.

Refrigeration

Salting

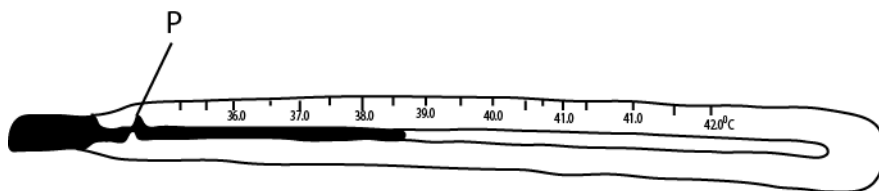
Smoking

Sun

2. Why are cockroaches classified as invertebrates?

They lack a back bone

The diagram below is of a clinical thermometer. Use it to answer questions 3 to 6.



3. What liquid is used in thermometer?
Mercury
4. What is the main function of the part labelled P?
To prevent backflow of mercury when measuring and reading temperature.
5. The temperature of a person was taken and the liquid rose to the level as shown in the diagram above. What was the person's temperature?
38.5°C
6. Why would you support that person in question 5 above had malaria?
The temperature of the person is above the normal temperature of 37°C.
7. Mention one way by which the supply of clean water in rural area is being improved.
Building boreholes
Constructing spring wells away from the pit latrine
Cleaning spring wells
8. State one way in which bacteria is useful to man.
Convert rubbish to humus
Fix nitrogen to the soil
9. Why are tape worms called parasites?
They feed on humans as well as causing harm to him
10. Why does Uganda Electricity Board worker wear rubber gloves when working on wires carrying electricity?
To prevent electric shock
11. Name one disease which attacks both poultry and rabbits.
Coccidiosis
12. How can a person become infected with tetanus?
Through rotting wounds
Through cuts

13. State one way in which evaporation is useful to man.

- **Helps in rain formation**
- **Evaporation of sweat cools the body**
- **Evaporation dries clothes**

14. What is the difference between the organism that cause the AIDS disease and that of gonorrhea?

AIDS is caused by a virus while gonorrhea is caused by a bacteria

Below is a table with column for vitamins, source of vitamins and the related deficiency diseases. Fill in the table to answer questions 15 to 17.

	Vitamin	Source	Deficiency disease
15.	Vitamin D	Milk	Rickets
16.	A	Pawpaw	Night blindness
17.	B ₁	Groundnuts Yeast Beans Whole grain of cereal	Beriberi

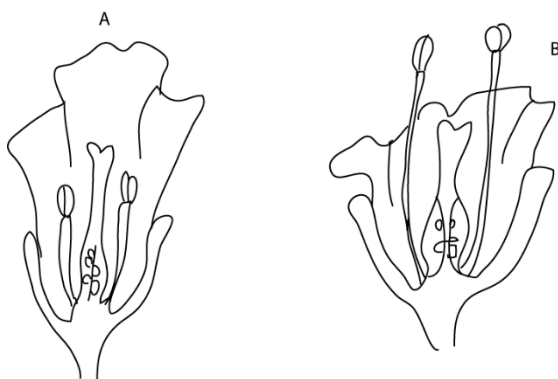
18. State one reason why air in the soil is important.

Used by germinating seed

Used by plant roots for respiration

Used for respiration by microorganisms

The diagram below are of flowers A and B. Use them to answer questions 19 and 21



19. Which of the two flowers is likely to be insects pollinated?

Flower A

20. Give one reason for your answer to question 19.

The stigma is higher than the anthers

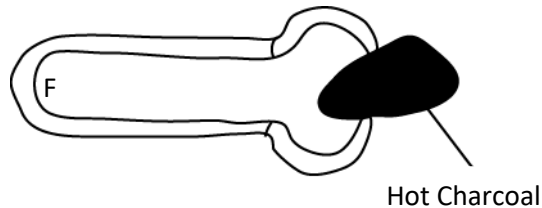
21. How is the other flower likely to be pollinated?

By wind because anthers are shorter than the stigma that the pollen grain can easily fall on the stigma

22. Which First Aid would you give to a person who has a burn by fire?

Pour cold water to burnt area to reduce the effect of burn

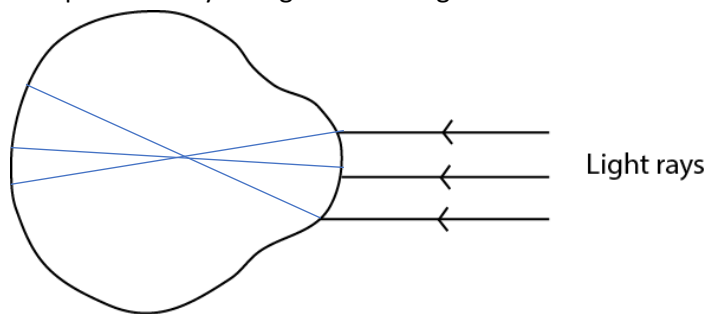
23. The diagram below is of a machine used for picking charcoal. Indicate on it, with letter F, the position of a fulcrum.



24. Why should a woman eat more food when she is pregnant than when she is not?

To provide extra nutrient for the baby

25. Complete the rays of light in the diagram below to show a condition of short-sightedness.



26. Name one function of the small intestine on an animal.

To absorb digested food

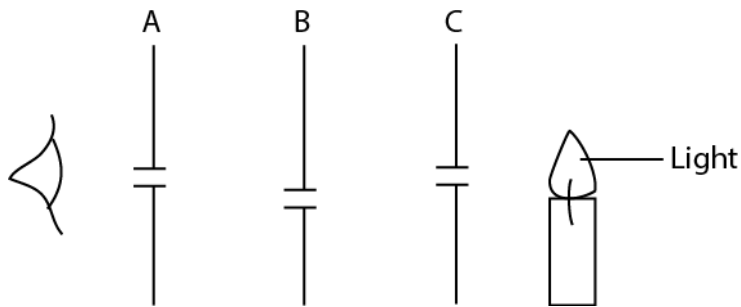
27. State one reason for juvenile delinquency (wrong behavior by children).

- **Peer pressure**
- **Drug abuse**
- **Overstrictness by parents/teachers**

28. Give the main reason why crop rotation maintain fertility.

- **When legumes are included they fix nitrogen in the soil.**
- **Crop rotation prevents exhaustion of a single nutrient.**

29. In the diagram below, A, B, C, d. are cards with small holes as shown below. Student at E is trying to see the light at A through the holes.



Why can't the light be seen at E?

Because the holes in the cardboards are not in straight line.

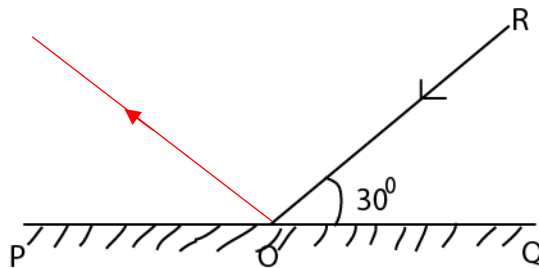
30. Why is it more difficult to breath in a room full of smoke than in open compound?

Smoke suffocates

31. What is the use of a nerve to a person?

Transport impulses to and from the central nervous system

The diagram below shows light falling on a plane mirror. PQ. Use it to answer question 32 and



32. Complete the drawing accurately, to see the reflected ray.

33. What is the value of the angle of reflection?

Angle of reflection = angle of incidence = $90 - 30 = 60$

34. State one way by which body lice can be avoided?

By keeping clothes clean

By ironing clothes

By bathing regularly

35. Where does a ground nut store most of its food?

In the seeds

36. Why are mushrooms carry out photosynthesis?

They lack chlorophyll

37. State the main reason for planting seeds in the soil.

Because soil contain water, air, nutrients for the plants.

38. Bbosa is suffering from severe malaria. Why would you not advise him to take medicine than that prescribed by a medical doctor?

It may lead to overdose

He may take a wrong drug

39. David dropped some oil on a piece of paper. Why does he fail to write with a ball pen on the sport where oil has dropped?

Oil removes friction from the paper

40. David is asked to find the volume of a piece of stone, the volume of which is about 300cm^3 . He was provided with 20cm^3 of water, a graduated cylinder and an over flow can. He found that this experiment would not work. Suggest one way how it can be made to work.

He should increase the volume of water above 300cm^3

SECTION B

41. (a) state one type of cattle

Dairy cattle e.g., Friesian, Jessy

Beef cattle: Baron, angus, Galloway

Dual purpose cattle

(b) Name two breed of cattle found in Uganda

Local breed e.g. Ankole, Boran, Zebu

Exotic breed e.g. Friesian, jersey

Cross breed (hybrid)

(c) give one advantage of cross-breeding with exotic bull.

To obtain hybrid with high milk production and cattle that grow fast.

42. Betty's home is near a pond.

(a) state any two diseases members of Betty's family are likely to suffer from.

Malaria

Typhoid

Yellow fever

bilharzia

(b) Suggest one thing that Betty can do to avoid one of the disease mentioned.

Sleeping in mosquito net

Pouring oil on the pond to reduce mosquito breeding

Draining the pond to remove mosquito breed place

To add small fish in the pond to eat mosquito larvae.

(c) How is scabies spread?

By body contact with infected person.

By sharing clothes with infected person

43. (a) What do you understand by adolescence?

Is a period between childhood and adulthood

(b) Name two secondary sex characteristic of adolescence.

Growth of pubic hair

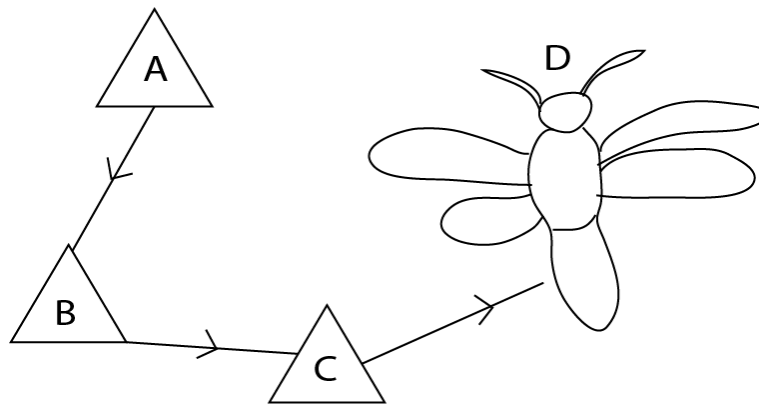
Development of breasts in girls

Development of broad chest in boys

(d) Give one disadvantage of pregnancy in adolescence

- Lead to school drop out
- Giving birth may be a problem leading to death of mother and a child
- Attempted abortion may lead to death
- Failure to support he baby

44. The diagram below shows the life cycle of a butterfly. Use it to answer the questions which follow.



(a) Name the stages A and B.

A: eggs

B: larva

(b) At what stage is a butterfly a pest?

Stage B

(c) State one reason why a butterfly is classified as an insect.

Butterfly has three main body parts

Has three pairs of legs.

45. (a) State any two ways of acquiring immunity.

Artificial immunity through vaccination

Natural immunity through colostrum

Suffering from disease and recover from it

(b) Apart from the six killer diseases, state any one other disease where one can acquire immunity.

Hepatitis

Meningitis

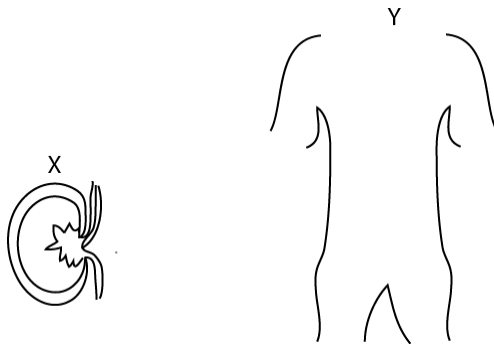
Yellow fever

Typhoid

(d) Why is it not possible to acquire immunity against AIDS disease?

- Because AIDS virus attacks white blood cells which weaken immunity of a person
- The AIDS virus has very many forms that it is difficult to develop immunity to very many forms

46. Use the diagram X and Y below to answer the questions that follow.



(a) Name the organ shown in diagram X.

Kidney

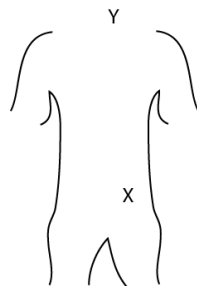
(b) What is the function of the organ shown in diagram X?

To remove waste metabolic products from the blood

To regulate amount of water in the body

To regulate body pH

(c) Mark on the drawing Y the position of the organ shown in drawing X.



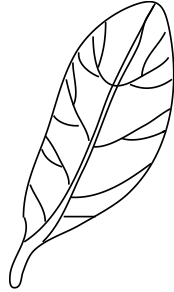
- (d) Name another organ in a mammal that carries out a similar function as the organ shown in the drawing X.

lungs

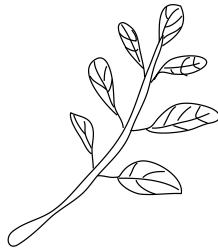
skin

47. (a) in the space below, draw an example of:

- (i) A simple leaf



- (ii) A compound leaf



- (b) State any one use of a leaf to a plant other than photosynthesis.

Food storage

Water storage

Vegetative reproduction

Gaseous exchange

Transpiration

- (c) Apart from being eaten as food, name one other use of leaves to man.

Herbal medicine

48. Use the list of plants given below to answer the questions that follow

Beans, mosses, conifers, mushrooms

- (a) Which two plants would you group together as members of one family

Beans and conifer are seed bearing plant

Mosses and conifer are non-flowering plants

- (b) Give a reason for your answer in (a) above

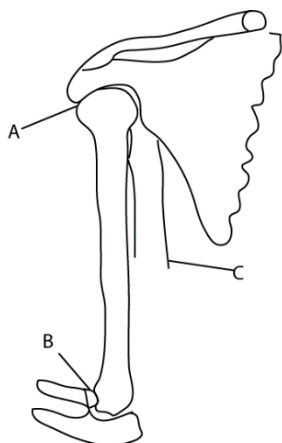
- (c) Which one of the above plants reproduces by means of flowers?

Bean

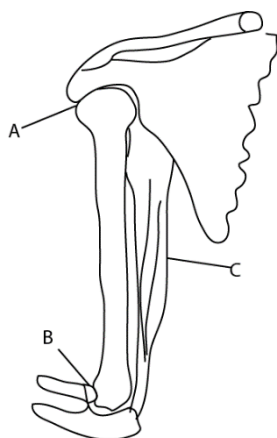
- (d) In what kind of environment would you find mosses?

Wet and damp environment

49. The diagram below is of a part of a human arm, use it to answer the questions which follow



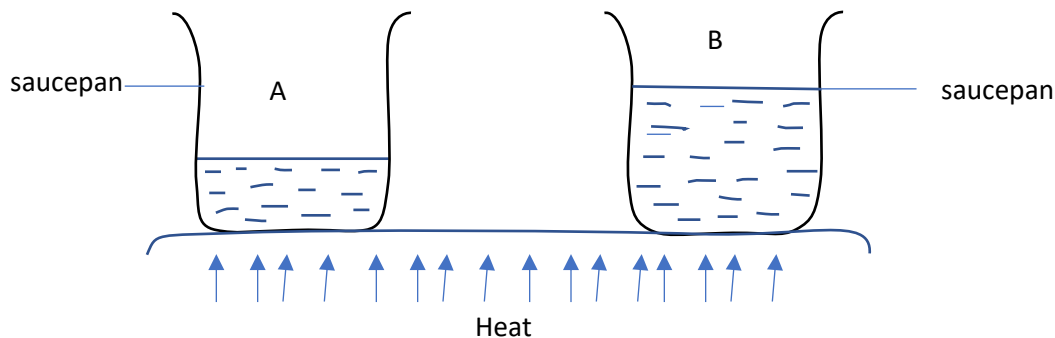
- (a) Name the joint A
Ball and socket joint
- (b) What kind of movement does the joint A allow?
Allows movement in one plane
- (c) Complete the drawing of muscles C to show where its lower end is attached.



- (d) If the arm is in the position shown, name the muscle which must be contracted.

Biceps

50. Two containers A and B containing some water as in the diagram below, were heated.



(a) In which container did water boil first?

A

(b) Explain your answer in (a) above.

Has less water that require less heat to boil

51. Matata came back from school and found a piece of left over boiled potato which was not covered. Because he was very hungry, he began to eat it at once.

(a) State two good healthy practice which Matata did not follow.

- **Did not wash his hands first**
- **He did not warm the food before eating it**

(b) Name a disease Matata could suffer from

- **Diarrhea**
- **Cholera**
- **dysentery**

(c) Give a reason for your answer in (b) above?

Housefly could have left germs because it was not covered.

52. A married couple has 10 children. The oldest is 15 years while the youngest is 3 months old.

(a) State two problems this family is likely to face.

Lack of enough food

Lack of proper medication

Congestion in a house

(b) Mention one health problem the mother may face

Mother's uterus may be destroyed

Premature birth

Mothers death

Maternal anemia

(c) State one suitable advice you would give to this family.

Should join family planning

53. (a) State one way in which you can distinguish between a poisonous snake and a nonpoisonous one

- **poisonous snakes has fangs while nonpoisonous snake does not have fangs**

(b) Give an example of a poisonous snake.

Cobra

Puff adder

Black mamba

(c) What First Aid is given to a person bitten by a poisonous snake?

Cut the injured part to allow bleeding

Put a black stone to absorb poison

Tie the cloth between the heart and the bitten part.

54. (a) How does heat travel through:

(i) Water?

By convection current

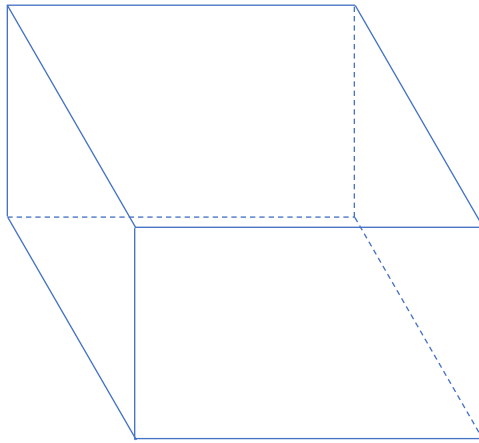
(ii) Vacuum?

By radiation

(c) Explain how the sun heats the air around us.

By convection; the sun rays heat the air near the ground which becomes less dense compared to the upper layer of air and thus the warm air rises and it is replaced by the cool air.

55. The figure below is accurately drawn. What is its volume?



Length = 4.6cm

Width = 3.4cm

Height = 2.8cm

$$\begin{aligned}\text{Volume} &= L \times W \times H \\ &= 4.6 \times 3.4 \times 2.8 \\ &= 43.792 \text{ cm}^3\end{aligned}$$

thanks