

UGANDA NATIONAL EXAMINATION BOARD PRIMARY LEAVING EXAMINATION



Dr. Bbosa Science

Index No:

Science 2009

Time allowed: Zhours 15 minutes								

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. Name one domestic used for protection in a home.

Dog

2. Give the function of a micropyle to a germinating seed.

Allow entry of water and air into the seed during germination

3. What gererasl name is given to animals with a backbone?

Vertebrate

Name the type of preservation where slow burning fire is used to dry food
Smoking

5. Give one pest which destroys the roots of root crops in gardens

Moles, rats or squirrels

6. What state of matter is smoke?

Gaseous state

7. Give a reason why a tsetse fly is dangerous to cattle.

It spread nagana to cattle and sleeping sickness to man

8. How is reproduction in beans different from that in ferns?

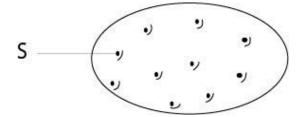
Beans reproduce by seed whereas fern reproduce by spores

9. Write activity that can help to reduce snake bites in homes.

Slashing the bushes around a home and rearing cat to eat snakes

10. The diagram below is of an Irish potato tuber

Use it to answer the question that follows.



What is the use of the part marked **S**?

It develops into a shoot system

- 11. Why is immunization of children carried out free of charge in Uganda?
 - to enable all children be protected from the killer diseases
- 12. Write one reason why people working in dirty areas should wear gumboots.

To prevent cuts to the legs

The prevent entry of germs

To prevent acquisition of worms

13. Why should young girls avoid getting pregnant?

It may terminate their education to care for their siblings

They may fail to deliver the child the child due to narrow vaginal canal

Their children may die due to lack of enough parental care

They may b attempted to abort and die in the process

They may bleed to death during delivery.

14. What type of farming should a farmer use in order to harvest both crops and wood?

Agroforestry

15. The diagram below shows a method of making water clean.

Use it to answer the question that follows.



Name the method used above: filtration

16. Why do projects thrown in the air fall back on the ground?

Due to the force of gravity

17 Why should communities fence open spring wells?

To prevent contamination by animals

18. State one ways of preventing athlete's foot disease.

Avoid sharing shoes

Keep your feet clean and dry

Change socks regularly

19. Why is an ostrich unable to fly?

Has small wings that cannot support the body

It is to heavy

20 Apart from trachoma, name one other eye disease.

- Conjunctivitis (pink eyes) which cause the conjunctiva to swell
- Sty appears like a small boil on the eyelid which is sign of anemia or diabetes.
- Night blindness due to lack of vitamin A
- River blindness caused by small worms called Onchocera
- Syphilis
- Gonorrhea
- Cataract which causes the eye lens to appear opaque
- Corneal ulcer caused by an injury on the cornea.
- 21. State one-way holes in the soil crated during brick –making may contribute to the spread of malaria in an area.

Accumulate stagnant water into which mosquitoes' breed

22. State one natural cause of a family failing to have enough food.

Drought, flood, fire, volcanic eruption, land slide

23. Name one material used to guard against electric shocks.

Gloves, rubber, dry wood, plastic

24. Give one activity the community can do to reduce road accidents.

There should be Zebra crossing for pedestrian to cross safely

They should be road signs

Avoid over speeding

Putting humps in dangerous spot

25. Name one activity carried out by farmers to remove unwanted plants from their gardens.

Weeding

26. Give one way in which claws are important to birds.

Hunting and griping prey

Killing and tearing prey

27. To which group of simple machines does a ladder leaning against a well belong?

Inclined plane

28. Why is it a bad practice to store cooked food in room where domestic animals are kept?

Food may get contaminated with feces

Animal may eat the food

Food may be contaminated with germs from animal bodies

Animals may step on food

29. Write one method of rearing cattle used in towns.

Paddock system

Zero grazing/tethering

30. State one similarity in structure between a snail and earthworm.

Both lack a backbone

They both have hydrostatic skeleton

31. Apart from rock particles and living organisms, name other part of soil.

Water

Humus

Air

32. What happens when an opaque object is placed in as path of light?

A shadow is formed

33. Name the kind of energy possessed by water at 100^{0} C.

Heat and kinetic energy, heat energy

34. Give one factor to be considered when choosing a site for a school garden.

Land

Good drainage

Fertile soil

Availability of water for watering

Distance from the school

35. The diagram below shows a stage of development of an animal.

Use it to answer the question that follows.



Name one animal that develop from this stage.

Frog or toad

36. State one common problem which adolescents face

Peer pressure leading to attraction of opposite sexes

Inability to control their feelings

Early pregnancy

Identity formation

37. Why is breast feeding very important to a mother?

It is a natural birth control method

It creates a love bond between a mother and a baby

Breast milk has no cost hence relieves the mother stress to buy milk

38. How do plants reduce the amount of carbon dioxide in the atmosphere?

They use it for photosynthesis

39. Name the part of a flower that holds the anther head.

filament

40. Give one reason why people who get badly burnt are given plenty of fluids

To prevent dehydration

To replace water lost in fluids

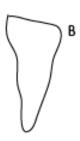
SECTION B (60 MARKS)

Question 41 to 55 carry four mark each

41. The following diagram shows two types of teeth in human beings

Use it to answer question that follow.





- (a) Name the type of tooth marked:
- (i) A: Canine
- (ii) B: incisor

- (b) Give the use of each of the teeth in the diagram above.
- (i) A for tearing food
- (ii) B for cutting food
- 42.(a) How does a guitar produce sound when its string is plucked?

By vibration

- (b) How can the pitch of a guitar be changed?
 - by tightening the string
 - by loosening the string
 - by increasing the thickness of the string
- (c) Name one way of storing sound.

On the compact disc (CD)

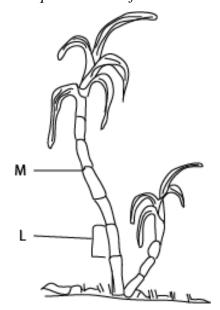
Through tape recorder.

(d) Give a reason why sound cannot travel through a vacuum.

There no matter to vibrate

43. The diagram below is of a sugarcane plant.

Use it to answer questions that follow.



(a) Name the part marked with letters M and L
(i) M: node
(ii) L: internode
(b) What food value is got eating sugar cane?
carbohydrates
(c) How is such a sugarcane plant propagated?
By stem cutting
44.(a) State one way in which a nursery bed is important to a farmer.
It protects seedlings from harsh weather conditions like too much rainfall and sunshine
It enables easy monitoring of seedlings
Enable a farmer to know which seedling are ready for transplanting
(b) Name two vegetable crop commonly grown in a nursery bed
(i) vegetable
(ii) carrots
(iii) tomatoes
(iv) tomatoes
(c) Give one way in which a farmer can care for crops in nursery bed.
- weeding
- watering
- sheltering
45. (a) Write one dangerous substance found in tobacco smoke.
Nicotine and tar

- (b) Give the meaning of each of the following:
- (i) active smoking: direct smoking of tobacco through cigarette and/or smoking pipe.
- (ii) passive smoking: breathing in air containing tobacco smoke by non-smoker.
- (c) What piece of advice can you give to smokers to help them to stop the habit?
- encourage them to be buzzy by reading books and playing games
- keep with nonsmoker friends in free time to avoid being restless.
- avoid company of smokers to avoid passive smoking
- tell about the dangers of smoking
- 46. The density of sand is 3 grams per cubic centimeter. Its mass is 270 grams. Find its volume.

Density =
$$\frac{mass}{volume}$$
 implies that volume = $\frac{mass}{density} = \frac{270}{3} = 90cm^3$

47. (a) What is First Aid?

First Aid is the first held give to a casualty (accident victim) before being taken to a heathy center or hospital for treatment.

(b) List any two things found in a first Aid box.

Bandage

Scissor

Plaster

Pain killers like Panadol and diclofenac

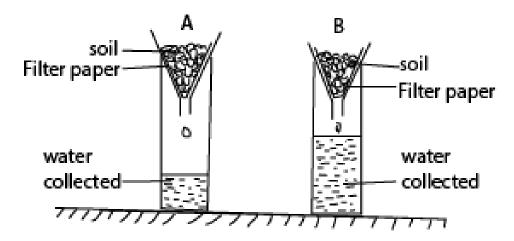
Cotton

Spirit

Razor blade

- (c) State why every school should have a First Aid box.
 - to handle emergency cases in order to reduce on the extent of injury
 - to save life in case of overbreeding

48. Equal amount of water were poured into soil A and B shown in the diagram below:



(a) From which soil did more water drop?

В

(b) State why more water dropped from soil you have named in (a) above.

Soil B has big particles than soil A.

(c) Name the type of soils in B

Sandy soil

(d) Give one use of the type of soil in A

Molding

Farming

- 49.(a) Write two activities that help to promote good sanitation in a home
 - proper disposal of rubbish
 - regular cleaning of toilets and latrines
 - maintaining cleanness of a house

(b) Name two diseases that may attack a family due to poor sanitation.

Cholera

Dysentery

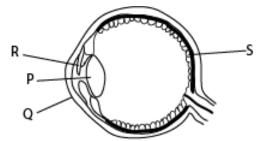
Typhoid

Diarrhea

Worms

The diagram below shows a human eye.

Study it and use it to answer question that follow.



- (a) Name the part marked:
- (i) P: lens
- (ii) Q: cornea
- (b) What is the function of the part marked R?

Controls a mount of light entering the eye

(c) Which letter on the diagram shows where images are formed?

S (retina)

51. the table below shows weather instrument and what they measure.

Match the items in list **A** and those in list **B**

List A	List B
Wind vane	Amount of rain
Barometer	Speed of wind
Rain gauge	Amount of air pressure
Anemometer	Direction of wind

- (a) Wind vane: direction of wind
- (b) Barometer: amount of air pressure
- (c) Rain gauge: amount of rain
- (d)Anemometer: speed of wind
- 52.(a) What name is given to the process that turns sugar to alcohol?

Fermentation

(b) Apart from making alcohol, state two other ways the process you named in (a) can be useful to human beings.

Manufacture of dairy products like yoghurt

Use for baking

(c) Name the fungus used in this process.

Yeast

53.(a) Name the process that takes place in the air sacs of a human lung.

Gaseous exchange

(b) What prevents the trachea (wind pipe) from closing during breathing?

It is made of cartilage rings that do not collapse under low pressure

(c) Give two products found in the air we breathe out.

Carbon dioxide

water

- 54.(a) State the function of each of the following structure in the human skeleton.
- (i) Ligament: joins a bone to a bone
- (ii) Tendon: joins a bone to a muscle
- (b) Give one example of a long bone in a human skeleton.

Femur, Humerus, tibia, fibula, ulna, radius.

(c) Name one disease that affects a human skeleton.
Polio, rickets, osteomyelitis, Yaws, cancer of the bones
55. (a) Name the germ that causes gonorrhea
Gonococci
(b) Give one sign of gonorrhea infection in a newly born baby
blindness
(c) How does gonorrhea infection increase the chances of a person getting HIV/AIDS?
It weakens the white blood cells making them unable to fight the virus that causes AIDs
(D) How can a person avoid getting gonorrhea?
Abstinence from sex
Faithful to one sexual partner
Practice protected sexual intercourse
END