



UGANDA NATIONAL EXAMINATIONS BOARD
PRIMARY LEAVING EXAMINATION

2015

INTEGRATED SCIENCE

Time Allowed: 2hours 15minutes

Index No.

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Candidate's Name

Candidate's Signature

School Name

District Name

Read the following instructions carefully:

1. This paper has **two** sections: **A** and **B**
Section **A** has **40** Questions and section **B** has 15 questions. The paper has 15pages 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 changes of work may lead to loss of marks.
5. Any hard writing that cannot easily be read may lead to loss of marks.
6. Do not fill anything in the boxes indicated: **“For Examiners’ Use Only”** and those inside the question paper.

FOR EXAMINERS’ USE ONLY		
Qn. No.	MARKS	EXR’S NO.
1 – 10		
11 – 20		
21 – 30		
31 – 40		
41 – 43		
44 – 46		
47 – 49		
50 – 52		
53 – 55		
Total		

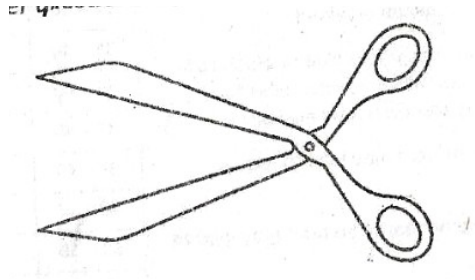
SECTION A: 40MARKS

Questions 1 to 40 carry one mark each

1. Which type of immunity do babies get from their mothers?
.....
2. Name the blood vessel which takes blood from the heart to the lungs.
.....
3. Name the energy resource obtained from animal dung and urine.
.....
4. Mention any one factor that affects the rate of evaporation.
.....
5. State the difference in units used to measure weight and mass.
.....
.....

The diagram below a simple machine.

Use it answer questions 6 and 7



6. To which class of levers does the machine above belong?
.....
7. Use an arrow with letter p to the fulcrum on the diagram.
.....
8. Give any one in which litter is important in a poultry house.
.....
.....
9. Apart from the bright coloured petals, state one other thing that attracts insects to flowers.
.....
.....
10. State any one way in which drought affects food production in the community.
.....



11. State the difference between the feeding of a tape worm and a hookworm.
.....

-
12. Why is water obtained by distillation method not good for drinking?

13. State the sense organ for feeling in human body.

14. Which property of magnets of enables a magnetic compass to work?

15. State any one way in which the spread of scabies can be prevented.

16. Why do some plants shed their leaves during dry season?

17. Mention one permanent method of birth control in males.

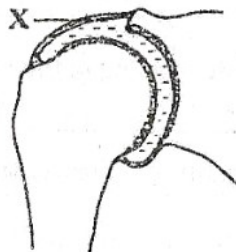
18. Why does a flesh die soon after it has been removed from water?

19. Give the use of a drenching gun to a cattle farmer.

20. Give one reason why pregnant women are advised to feed on food rich in proteins.



The diagram below shows parts of a joint.
Study and use it to answer questions 21 and 22.



21. Name the marked with letter x

22. Using letter **W**, label the part that reduces friction in the joint, apart from the synovial fluid.

23. State the method of controlling erosion where farmers plough land across aslope.

.....
24. Which element of primary health care helps to prevent tooth decay?

.....
25. State the role of enzymes during food digestion.

.....
26. Apart from cameras and microscopes, name any one other optical instrument that uses a lens.

.....
27. Give one way in which mosses are similar to mushrooms in the way they reproduce.

.....
28. Why is tepid sponging an important first aid to a person with high fever?

.....
29. Why are sun birds able to suck nectar from the bottom of flowers?

.....
30. Give an example of a mollusc which is a vector to humans.

.....

.....

.....

.....



31. Name the human body system which eliminates wastes.

.....
32. Give any one way in which a VIP latrine is different from an ordinary latrine.

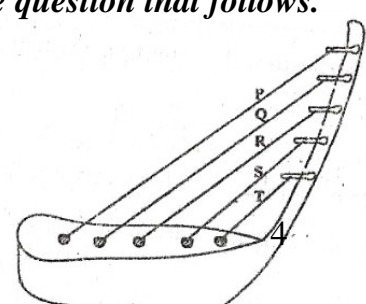
.....
33. Name the root crop which is attacked by the mosaic disease.

.....
34. Give any one reason why sheep farmers carry out docking.

.....
35. Apart from a flat iron, give any one other appliance used at home changes electric to heat energy.

.....
36. The diagram below shows a well tuned musical instrument. The strict Q.R.S and T are of uniform thickness.

Use it to answer the question that follows.



37. Why does string t produce sound of highest pitch?

.....
.....

38. State any one way in which smoking affects the human respiratory system.

.....
.....

39. Give the importance of plants in a food chain.

.....
.....

40. Name the fungal- caused sexually transmitted disease, which is spread through poor hygiene.

.....
.....



SECTION B: 60 MARKS

Question **41** to **55** carry **four** marks each.

41. (a) Give **two** examples of natural fertilizers.

(i)

(ii)

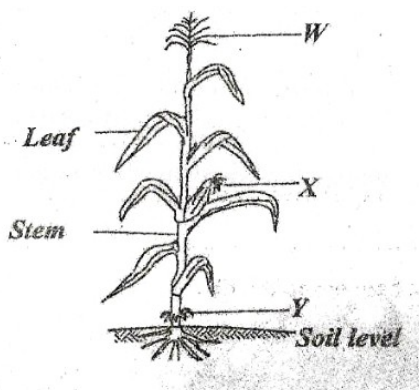
(b) State any **two** ways in which natural fertilizers are better than artificial fertilizers.

(i)

(ii)

42. The diagram below shows a flowering plant.

Study and use it to answer the questions that follow.



- (a) To which group of flowering plants does the above plant belong?

- (b) What type of root system does the plant have?

- (c) State the importance of the type of root marked **Y** to the plant.

- (d) In which one way is part **W** different from **X** in their reproductive function?

43. (a) Give **two** conditions in which women are vulnerable.
 (i)
 (ii)
- (b) State any **two** ways in which family members can care for vulnerable women.
 (i)
 (ii)



44. (a) Name the respiratory organs which are protected by the rib cage.

- (b) What happens to the rib cage during the following processes:
 (i) Breathing in?

- (ii) Breathing out?

45. Give the of oxygen we breathe in the table below shows diseases, the vectors that spread them and the disease-causing germs. Study and complete it correctly.

Disease	Vector	Germ
Cholera	Houseflies
Yellow fever	Virus
.....	Infected cats	Virus
River blindness	Batter flies

46. (a) Give the function of each of the following parts of a modern beehive:
 (i) The brood chamber

.....
(ii) The honey chamber

.....
(b) Apart from being used as food, give two other ways in which honey is useful to people.

(i)

(ii)

47. (a) What kind of food is made by green plants during photosynthesis?

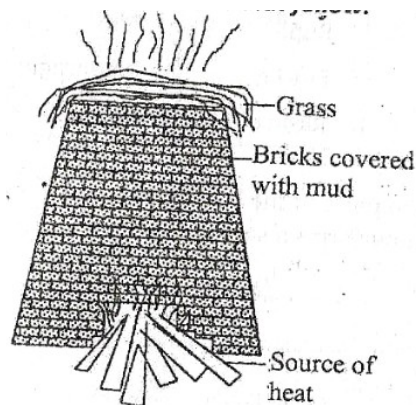
.....
(b) State any one raw material used by green plants for photosynthesis.

.....
(c) How is chlorophyll important during the process of photolysis?

.....
(d) Give one reason why photosynthesis does not take place at night.

.....
The diagram below shows firing bricks in a kiln

Study and use it to answer the questions that follow.



48. (a) Name the source of heat energy used in the bricks.

.....
(b) Give any one reason why the bricks are covered with mud before firing starts.

.....
(c) What is the importance of the grass put on the kiln during firing?

.....
(d) State any one disadvantage of using the above method of firing bricks to the environment.

49. The table shows below parts of a human eye in a and that of a lenses camera in b

A	B
Iris	Shutter
Pupil	Film
Eye lid	Diaphragm
Retina	Aperture

For each of the parts of the human eye, write the part of the lens camera from b which performs a similar function.

- (i) Iris
- (ii) Pupil
- (iii) Eye lid
- (iv) Retina

50. (a) Which communicable disease shows signs and symptoms similar to that of tuberculosis

.....

(b) Name one cattle product through which tuberculosis can spread to human beings.

.....

(c) When is the vaccine against tuberculosis administered in babies

.....

(d) Apart from immunization, give one other way in which the spread of tuberculosis can be controlled in humans.

.....

51. (a) Give any **two** ways in which alcohol is used in hospitals.

(i)

.....

(ii)

.....

(b) State any two effects of alcoholism to an individual.

(i)

.....

(ii)

.....

52. (a) Apart from the respiratory gases and body wastes, name any other **two** materials carried in blood.

(i)

(ii)

(b) Name the component of blood which transports oxygen in the human body.

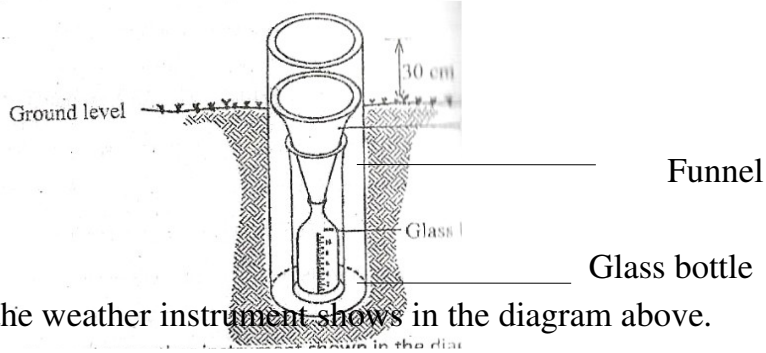
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(c) Which disease causing germ attacks the white blood cells in humans?

.....

53. The diagram shows a weather instrument.

Study and use it to answer the questions that follow.



(a) Name the weather instrument shown in the diagram above.

.....

(b) What is the use of the instrument above at a weather station?

.....
.....

(c) Give a reason why people are advised to:

(i) Put the instrument in an open ground when using it.

.....

(ii) Raise the instrument 30cm above the ground when using it.

.....

54. (a) To which class of vertebrates do toads belong?

.....

(b) Give one way in which the breathing of a toad is different from that of a tadpole

.....
.....

(c) State any two ways in which the jelly round the eggs of toads is important.

(i)

(ii)

.....

55. (a) Apart from ticks, name any one other cattle pest.

.....

(d) State any two diseases spread by ticks to cattle.

(i)

(ii)

(e) Give any one in which the tick borne diseases can be controlled.

.....
.....