

UGANDA NATIONAL EXAMINATIONS BOARD

PRIMARY LEAVING EXAMINATION

2016

INTEGRATED SCIENCE

Time Allowed: 2 hours 15 minutes

Index No.	
Candidate's Name	
Candidate's Signature	
School Name	
District Name	5.0

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 16 pages 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 and diagrams will not be marked.
- 4. Unnecessary changes of work may lead to **loss** of marks.
- 5. Any handwriting 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.

	EXAMINE USE ONLY	RS'
Qn. No-	MARKS	EXR'S NO.
1 - 10		
11 - 20		
21 - 30		
31 - 40		
41 - 43	2 1	
44 - 46		
47 - 49		
50 - 52	,41.5	."
53 - 55	- 1	
TOTAL	6.42	

SECTION A: 40 MARKS

Questions 1 to 40 carry one mark each.

1.	Name the gas used in fire extinguishers.
2.	State the eye disease which is spread by houseflies.
3.	Which part of a fish performs a similar function as the human ear?
4.	Name the male reproductive cell in flowers.
5.	Give any one way in which wood fuel can be conserved.
6.	The diagram below is of a weather instrument. Use it to answer the question that follows.
r	What is the use of this instrument at a Weather Station?

7.	Which method of heat transfer enables a person to iron clothes using a flat iron?

8.	Why should cold water be poured on the part of the body which has been scalded or burnt?
9.	Apart from decomposition, in which other way is soil formed?
10.	What is the importance of smoke during the harvesting of honey?
11.	State the class of lever in which the effort is between the fulcrum and the load.
12.	Give a reason why male anopheles mosquitoes do not transmit malaria parasites to humans.
13.	How can foot and mouth disease be controlled in cattle?
f.	***************************************

14.	Give one way in which farmers can improve on the supply of nitrogen in the soil without the use of artificial fertilizers.
	The diagram below is of a human arm. Study and use it to answer questions 15 and 16.
	Q P
15.	Name muscle P.
16.	What happens to muscle Q when the arm is raised?
17.	Which intestinal worm enters the human body through bare feet?
18.	How do plants make use of the gas given out by animals during respiration?

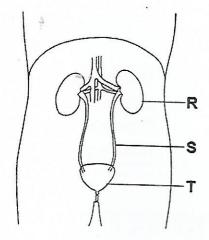
19.	State any one use of plane mirrors to people.
	· ····································
20.	Apart from helping in pollination, give one other way in which wind is useful to plants.
21.	Which part of a maize grain has a similar function as the cotyledon of a bean seed?
22.	State any one characteristic which shows that a bat is a mammal.
23.	Which blood cells carry oxygen in the body?
24.	Give any one reason why breastfeeding is encouraged for at least two years.
25.	Name any one scale in which temperature is measured.

26.	The diagram be Use it to answe				close to each other.
		5		magazit.	or,
		N	S	N	S
	Use arrows to	show what h	appens to	the two bar ma	agnets.
27.	Name the humbelong.	an body syst	tem to whic	ch the lungs, k	idneys and the skin
					T.
28.	Give one way i	n which bact	teria in pit l	atrines are us	eful.
				elatitata e	State any or
29.	Name one dise	ease that affe	ects the sto	mach because	e of alcoholism.
30.	Apart from the children at 6 we		e, name an	y other vaccin	e administered to
31.	In which part of	f the human	alimentary	canal is water	absorbed?
32.	What is the dar	nger of havin	ig too mucl	h wax in the h	uman ear?

33.	What form of energy is produced by dry cells?
34.	Give any one good health habit that can improve the working of the lungs.
35.	Apart from eating a balanced diet, give any one other way of controlling common diseases at home.
36.	The diagram below shows a method of plant propagation. Use it to answer the question that follows.
	Shoot from orange Lemon stem
	Name the method of plant propagation shown in the diagram above.
37.	Which organs are used by both fish and tadpoles for breathing?
38.	Give any one secondary sex characteristic which is common to both adolescent boys and girls.

Nam	e the fungi which normally grows on left over foods.
	t happens to light rays when they meet a convex lens?
	Y - 1 pastad a pridee mol
	8
	SECTION B: 60 MARKS
	Questions 41 to 55 carry four marks each.
(a)	State any two ways in which vectors spread diseases to humans. (i) (ii)
(b)	Give any two ways of preventing vectors from spreading diseases to humans.
	(i) (i) (ii) (iii)
	(ii)

42. The diagram below is of the human urinary system. Study and use it to answer the questions that follow.



- (a) Name the parts marked S and T.
 - (i) S
 - (ii) T
- (b) What is the function of the part marked R?

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(c) Give any **one** disease that affects the above system.

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43. In the table below, part **A** shows some activities carried out by farmers and part **B** shows the effects of the activities.

Δ	В
ACTIVITIES	EFFECTS
Irrigation Afforestation Mulching Crop rotation	 Preserves soil moisture Leads to death of crop pests Promotes convectional rainfall Allows growth of crops in all seasons

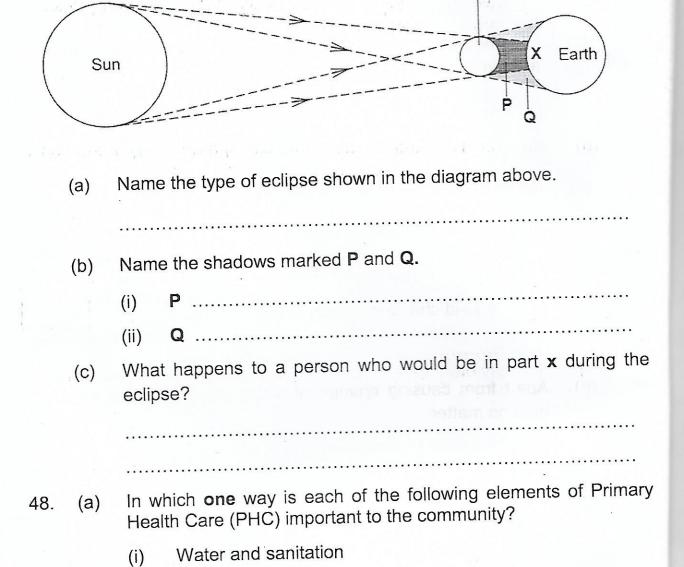
	Write	rite the correct effect to the activity in the space provided below.		
	(i)	Irrigation		
	(ii)	Afforestation		
	(iii)	Mulching		
	(iv)	Crop rotation		
44.	(a)	Give any two examples of non-renewable resources in the environment.		
		(i)		
		(ii)		
	(b)	State any two ways of conserving non-renewable resources.		
2 4 4		(i)		
1				
		(ii)		

45.	(a)	To which group of plants do ferns and liverworts belong?
	in	
	(b)	How is the reproduction of ferns similar to that of liverworts?
	(c)	Give two other plants that reproduce in the same way as ferns and liverworts.
		(i)
		(ii)
46.	(a)	Name the change of state which takes place when:
		(i) vapour changes to liquid.
		(ii) a solid changes directly to gas.

	(b)	Apart from causing change of state, give two other effects of heat on matter.
		(i)
		(ii)

47. The diagram below shows a type of eclipse. Study and use it to answer the questions that follow.

Moon

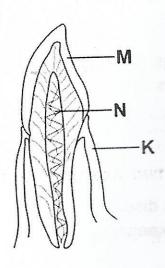


Maternal and child health

(ii)

	(D)	maternal and child health.
		(i)
		(ii)
49.	(a)	Name two systems of keeping poultry that enables a farmer to keep large numbers of birds.
		(i)
		(ii)
	(b)	State any two viral diseases that can spread easily in the above systems of poultry keeping.
		(i)
		(ii)
50.	(a)	Give any one characteristic which is common to all invertebrates.
	(b)	To which group of invertebrates does each of the following animals belong?
		(i) Snail
		(ii) Grasshopper
	(c)	State one way in which snails may be dangerous to humans.
	•	•

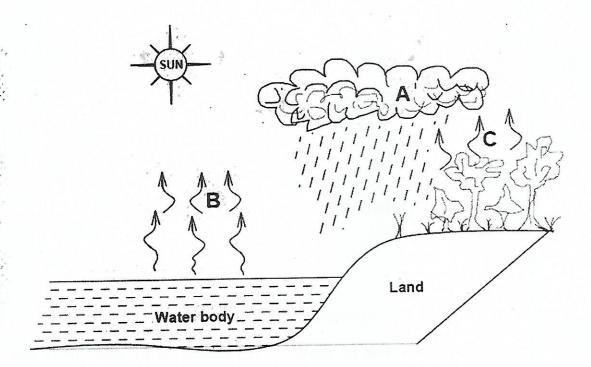
51. The diagram below shows a section through a human tooth. Study and use it to answer the questions that follow.



	(a)	Name the parts marked M and K .	
		(i) M	
		(ii) K	
	(b)	Which mineral salt helps to form part M?	
	(c)	Give the function of the part labelled N.	
52.	(a)	State the method that can be used to separate:	
	(i)	fruit seeds in juice.	
	(ii)	millet seeds mixed with its husks.	

(0)	home:		
	(i)	Sorting	
	(ii)	Soaking	
53.	(a)	Write down any two examples of anti-social behaviour in our communities.	
		(i)	
		(ii)	
	(b)	State any two ways of controlling anti-social behaviour in our communities.	
		(i)	
		(ii)	
54.	(a)	Apart from using solfa notation, mention any two other ways of storing sound.	
		(i)	
		(ii)	
	(b)	Name two instruments used to reproduce the sound stored by solfa notation.	
		(i)	
		(ii)	

55. The diagram below shows the water cycle. Study and use it to answer the questions that follow.



(a) Name the type of clouds represented by letter A.

(b) State the processes taking place at B and C.

- (i) B
- (ii) C
- (c) What is the importance of the sun in the above diagram?

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END .