BBROAD EXAMINATIONS®

P.7 INTEGRATED SCIENCE EXAMINATION TRIAL SET I TERM I - 2023

Time allowed: 2 hours 15 minutes.	Call Street	THE HALL	1999
Candidate's Name			
Candidate's Signature	***************************************		Janes Maries
School Name:			
Read the following instructions carefully: 1. This paper is made up of two sections: A and B.	FO	R EXAMIN	~~~
2. Section A has 40 questions (40 Marks)	PAGES	MARKS	SIGN
Section B has 15 questions (60 Marks) Answer ALL questions in both sections A and B.	Page 2	AL RES	4580.2
5. All answers must be written in the space provided in blue or black ball point pens and ink. Only diagrams	Page 3		
should be done in pencil.	Page 4		I may "
6. Unnecessary crossing of answers will lead to loss of marks.7. Any handwriting, which cannot be easily read, may lead to	Page 5	Carre	
loss of marks. 8. Do not fill anything in the boxes indicated for	Page 6		
Examiners' use only.	Page 7		
	Page 8		
Teacher's comment to the learner	TOTAL		
	Approved	by:	
	Team Hea	d Science Dep	

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SECTION.A. (40 MARKS)

1. State the use of a dustbin in a classroom.

Below is a diagram of a tuber crop. Use it to answer question 2.



- 2. Mention the food value got from above the tuber crop.
- 3. In which one way is the skeletal system related to the circulatory system?
- 4. Mention the reproductive part of a plant.
- 5. Give a reason why a frog is able to live both on land and in water.
- 6. State the reason why poultry farmers sometimes shorten the upper beaks of their
- 7. Mention type of the soil used in making ceramics.
- 8. In which way is a pumice stone important in promoting proper personal hygiene?
- 9. What general name is given to drugs used to treat bacterial diseases?
- 10. Give a reason why rabbit keepers raise hutches above the ground.
- 11. State any one use of banana fibres to a P.4 child in the study or basic technology.
- 12. How are conifers different from other non-flowering plants in terms of reproduction?

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he diagram below is a body organ, use it to answer question 13. 13. In which way is the above organ useful to a P.7 candidate? 14. How does the draining of stagnant water control the spread of malaria to humans? 15. Name the longest and strongest bone in the human skeleton. 16. In which way is a flossing string important in promotion of oral health? The diagram below shows the arrangement of molecules in a state of matter. Use it to answer question 17. molecules 17. Identify the state of matter shown above. 18. Give any one effect of passive smoking on human health. 19. Name the weather instrument used to measure amount of rainfall received in an area. 20. Suggest the reason why it is a good practice to wash hands with soap and water after visiting a latrine. 21. In which way is an umbrella useful to a person during sunny weather? 22. Mention an amphibian with a tail. 23. Give any one advantage of breastfeeding to a baby. Broad Educational Consult 2023. Tel: 0486 - 442077, 0786-65930I, 0706-3865I0, 0772-864523

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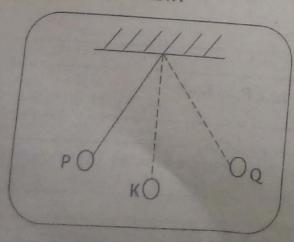
24 In which way does diarrhoea lead to dehydration?
25. Mention a tool used in cutting fingernails short.
26. Give a reason why workers are called female sterile bees.
27. Identify an exotic dairy breed of cattle that produces a lot of milk.
28. In which way are cilia important in the human nose?
29. State a reason why the legs of a person who has fainted are raised higher than the
30. Name an instrument used to measure the volume of an irregular object. 31. In which way are red blood cells adapted to their function?
Below is a diagram showing a component of alimentary canal. Study it and answer question 32. 32. Mention the digestive juice secreted by the above part.
33. Mention an accident caused by hot charcoal to a human being.
34. Give one way the pitch of sound produced by a guitar can be changed.
35. How is the practice of docking important to a ewe?
6. Name the source of energy got when plants are burnt in a limited supply of oxygen.
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- J	nimbus clouds important to a crop farmer?
Below is a diagrar	n of a fish. Use it to answer question 38.
X	answer question 38.
	38. Mention the function of part marked X to a fish.
). In which way are a	air sacs important in the human respiratory system?
). What does letter '	S' stand for in the word PIASCY?
	SECTION .B. (60 Marks)
(i)	xamples of non-flowering plants that reproduce by means of spores.
	vo examples of conifers.
(ii)	
2. (a) In which way is	a constriction an important part of a clinical thermometer?
(b) Give any one re	eason why mercury is preferred for use in a clinical thermometer.
accurate body tem	
1333	Let must be important to a P 4 child?
(a) In which way ca	in used straws be important to a P.4 child?
(b) Mention any two	o local materials used in the environment to make play materials.
	· !! 6i+2
(c) How are ropes u	seful in making a P.4 child physically fit?
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44. (a) Mention a germ that causes Covid-19.
(b) Give any two ways how Covid-19 is spread to humans. (i)
(c) State one way how the spread of Covid-19 can be controlled.
45. (a) In which way are wasps harmful to man?
(b) Give two examples of social insects. (i) (ii)
(c) in which way is a butterfly unfriendly to a crop farmer during its larva stage?
46. (a) Name the part of the human skeleton that protects the spinal cord.
(i) (ii) examples of short bones in the human body.
(c) Identify one disorder of skeletal system in man.
(i) examples of stem tubers.
(b) Give any one common disease of cassava.

(c) Write down one way of controlling diseases that attack cassava in the garden. 48. The diagram below shows a ball being kicked by a foot baller. Use it to answer



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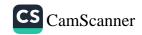


(a) What tu	ne of onorgy is passaged by a billion
/ - mac ty	pe of energy is possessed by a ball at P before being kicked?
(b) Give a re	eason to support your answer in (a) above.
(c) State the	e energy change that takes place when the ball moves from P to K.
(d) Name th	e form of energy produced when the ball is kicked.
49. (a) How is C	ochlea important in the process of hearing?
	vo parts of the ear that are not involved in the process of hearing.
(11)	
(c) State the	e difference in function between the two parts of the ear you have named in
0. (a) In which	way does deforestation lead to soil erosion?
	any <u>two</u> other causes of soil erosion.
(ii)	
	way soil erosion can be controlled in the school compound.
(a) What are	annual crops?
	two examples of annual crops.
(i)	crop growing practice that maintains moisture in the soil.
	methods of vegetative propagation in list M to their meanings in list M
natch artifici	
ist M	the branch of a mother plant is bent to touch the soil.
ludding	the branch of a mother plant is bent to toden the stock of allow roots develop. a ring is cut through the back of a branch to allow roots develop.
rafting	a ring is cut through the back of another plant.
ayering	a ring is cut through the back of a bruther plant. involves the union of scion to the stock of another plant. dormant bud from a plant is fixed into the shoot system of another.
ayerns	bud from a plant is the
larcotting	dormain: bod

(i) Budding	-
(ii) Grafting	
(iii) Layering	
(iv) Marcotting	173.68
53. (a) Give a reason why respiration is a chemical change.	
the state of the s	
(b) Name two by-products given out by respiration as a chemical change.	
(i)	
(ii)	
(c) In which one way is respiration important to man?	
54. (a) Give two ways in which plants are used as resources by man.	
(i)	
(ii)	1 416
(b) State two ways man can conserve plants in the environment.	2000
(i)	
(ii)	-
55. The diagram below shows the method of heat transfer in matter. Use it to a	inswe
questions that follow.	
Pieces of wax	
A 30 20 10	
Metal rod	
Source	
of heat	
(a) Which wax melts first?	
(a) Which was hicked history	
(b) Give a reason for your answer.	
(c) Mention the method of heat transfer shown above.	
(d) State one use of the heat transfer you have mentioned in 55(c) above.	
(d) State one use of the fleat transfer you have member in 55(e) above.	
END	
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BROAD	FOR PROPER disposal - (ANSWER(S) SCIENCE SET I THE	Spy.	
CHICAGONAL DOS	For proper disposal of rubbish	Z.	
		TOASS	
	/ Vitamin A	PA	RELATED CO
Pur		P.5	Diseases
7 3	Skeletal system prot	1	Examples
S	Skeletal system protects the heart which pumps blood to flower		" Diseases
11-	skeleton produces bland blood to	97	them
4.	Flower Flower		Structur
1			skeleton
5.	A fron has mi	P4	- Major ty
	A frog has moist skin for breathing when in water and		- Structur Parts and
6.	lungs for breathing when on land. To prevent each set:	P.6	- Classes o
	To prevent egg eating.		- Examples
		P.5	
7.			- Types of - Methods
1	Clay soil		poultry
		P.2	- Why hea
		1	made mat
8.	It is used to remove dirt from feet.		- Uses of s
	To remove airt trom feet.	P.2	- Meaning
			hygiene
		DOTTO!	- Tools use
9.	Antibiotics		body
	The state of the s	P.5	- Structure
			bacterium
			- Characte
10.	To provent de		bacteria
	To prevent dampness in the hutch/to protect rabbits	P.4	- Exotic br
11.	Tront their predators.		- Diseases
1 21.	A P.4 child uses banana fibres to make play materials	P2	- Sources
	(dolls, balls, ropes)		
			used to m
12.	Conifers reproduce by means of seeds while other non-	P.6	- Classifica
	flowering plants reproduce by means of spores.		plants
			- Examples
13.	It enables a P.7 candidate to smell.	P.1	- Functions
1 7 1			the body
ing			- How to ca
14.	It destroys the breeding places for mosquitoes that	P.4	- All types of
	spread malaria (anopheles mosquitoes).		- Diseases t
1		97	
15	Femur		Disorders
			Skeleton
	to the fram teath	P.4	Diseases
10	It is used to remove plague from teeth.	All Phil	Disorders
		P.5	Flow to cor
1 17	Solid state	- 4-11	States of

18	It leads to lung cancer/stomach ulcers/cancer of the
	throat
19	Rain jauge
20.	It kills germs on hands
21.	An umbrella protects a person from strong sunshine.
22,	Salamander
23,	Breast milk contains a balanced diet/is always at right temperature/is easily digested/is always ready and clean.
24.	Through passing out watery stools.
25.	Razor blade/nail cutter
26.	They have undeveloped reproductive system.
27	Friesian Friesian
28.	Cilia filter air entering the nose.
29.	To enable oxygenated blood flow to the brain.
30	Eureka (overflow can)/measuring cylinder.
31.	They have be
32	They have haemoglobin to enable them carry oxygen. Gastric juice
	Juice



6	
III les of Literation on law	
that it By tightening or loosening the strings	
The strings	
the per It eases mating	
rain ga	
no chancool	
Poor p. 36 Charcoal	
ote pe,	
I hey bring steady rainfall which support	
ging 37. They bring steady rainfall which supports the growth of arher 38. It detects sound	P.4
We as It detects sound waves in west	
water/enemies in water, movements in	16
l mat	
Y leaa 39. They are used for gaseous exchange.	
gaseous exchange.	Ph
7 40. Strategy	
long	P3
8.	
SECTION O	
E (a) Mosses/ferns/liverworts/hornworts/horsetail	
(b)Pine/podo/cedar/cypress etc	
42. (a) It provents the hold	
(a) It prevents the backflow of mercury before the health worker takes readings.	P.5
(D) Mencum	1
Parision/easily seen through the class tube	
I'll the mouth under the terring	
mey are used to make tovs/play materials	F2
1 Joseph Daniana Hopes	
(c) Ropes are used for skipping 44. (a) Corona Virus	
(b) Through breathing in contaminated air/hugging	P.3
Broad Educary (c) Proposition Contaminated Surfaces (ct)	
(c) by wearing a race mask/regular washing of hands	
using soap/isolating infected people.	
(a) They sting man,	P.3
(b) Red ants/termites/bees	1
(c) It damages crops.	
46. (a) Backbone/the spine/vertebral column (b) Tarsals/carpals	P.7
(c) Dislocation/sprain/fractures 47 (a) White yams/Irish potatoes	P.5

	(c) Weeding cassava/spraying using chemicals/planting disease resistant varieties/removing infected		Charges Pests
1	cassava.	P.5	Forms
	(a) Potential energy		- Energy
1	(b) The ball is at rest. (c) Potential energy changes to kinetic energy.	1	
	(d) Sound energy	1	
49		P.6	Disorders
	(b) Eustachian tube/semicircular canals	1	How to co
	(c) Eustachian tube is used for balancing air pressure		ear
	inside the ear with atmospheric while semicircular	1	
	canals are used for body balances.	1	
50.	(a) By leaving the soil bare exposing it to erosion agents.	P.5	- Meani
	(b) Bush burning/over cultivation/monocropping/over	1	- Effec
	grazing.		
	(c) By planting short grass in the compound.		
51	(a) Annual crops are crops which take less than a year to	P.4	- Caring
	mature.		- Diseas
	(b) Beans/maize/wheat/groundnuts/cotton/etc	13.16	contro
	(c) Mulching	- 11	
52.	(i) dormant bud from a plant is fixed into the shoot	P.6	- Charac
	system of another.	13379	monoco
	(ii) involves the union of scion to the stock of another		- Advent
1-4	plant.		vegeta
	(iii) the branch of a mother plant is bent to touch the soil.	1	propag
	(iv) a ring is cut through the back of a branch to allow	1 4 5 6	
	roots develop.	17974	1 1 1 1 1 1 1 1
53.	(a) It forms a new substance/it is irreversible/there is	P.5	- Similar
1	change in mass and weight.		biologic
1	(b) Carbon dioxide/water vapour		change
	c) It enables man to get energy.		- Example
	a) Man uses plants to make herbal medicine/to get poles	P.6	
	for building houses/plants provide shade to		- Types o
1	man/provide oxygen to man for reproduction.		type of
1	b) Through afforestation/re-afforestation/discouraging		1
1	people from carrying out deforestion.		
5 7	the state of the same of the s	P.5	1
	a) Wax 3		- Natural
	b) It is nearest the source of heat.		
	c) Conduction		
10	d) It is used in ironing clothes/used in cooking food		