

### SUREKEY EXAMINATIONS BOARD

# PRE-PLE SUPER SERIES (GENEVA) 2024

## INTEGRATED SCIENCE

Time Allowed: 2 hours 15 minutes

Random NO.				Pers	onal No.

Candidate's Name:	•••••	· · · · · · · · · · · · · · · · · · ·		
Candidate's Signature:	•••••••••••••••••••••••••••••••••••••••	•••••••	•••••••	
School Name:	•••••••••••••••••••••••••••••••••••••••	•••••••••••••••••••••••••••••••••••••••		•••••••••••••••••••••••••••••••••••••••

# Read the following instruction carefully:

- Do not forget to write your school or district name anywhere on this paper.
- This paper has two sections: A and B
   Section A has 40 questions and section B
   has 15 questions. The paper has 15
   printed pages altogether.
- Answer all the questions. All answers to both sections A and B must be written in the spaces provided.
- All answers must be written using a blue or black ball point pen or ink. Any work written in pencil will not be marked.
- Unnecessary changes in your work and handwriting that cannot be read easily may lead to loss of marks.
- 6. Do not fill anything in the table indicated: 
  "FOR EXAMINERS' USE ONLY" and boxes inside the question paper.

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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			

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#### **SECTION A: 40 MARKS**

#### Questions 1 to 40 carry one mark each

1.	Name the communicable intestinal disease that makes a person to pass out blood-stained stool.
	······································
2.	State any one method that can be used to preserve skins from animals.
3.	Give any <b>one</b> way in which animals benefit from plants in the environment.
4.	Name any <b>one</b> material transported by the blood capillaries in the human body.
1	Zadvije ka kuji
	diagram below shows the front view of the human eye. Use it to answer stions 5 and 6.
	JULIUS
	Z-E
5.	Name the part marked E.
6.	State the function of part marked F on the human eye.
7.	Apart from an ostrich, give any one other example of a flightless bird.
19	G. W.





8.		nairs and root nodules	
	on a plant.	angitasi piraganti di la	
9.	Civo any one recent why formers dock their fema	lo choon	
Э.	Give any one reason why farmers dock their fema	ile Sileep.	
			٠
10.		city produced by a	
	bicycle dynamo can be increased.		
		· .	jili.
	submissions to ell planwards interference	te residen erit breed ik	
. 4			
11.	1. Give any one example of a natural fibre obtained	from animais.	
	THERE DOUGHT BUT THEN SOUTH IN TRACK DOUGHT WEEK	Situation salves feets married	
12.	<ol><li>Mention any one sign of scurvy in humans.</li></ol>		
		Alin philan of the ment of the	1
13.	3. Which part of the vacuum flask prevents heat loss	s or gain by conduction?	
	White a subject to a present a second to the result of the second of the	THE YORK SHIPLY HE SELECT	
4.4	4. State any one way in which alcohol is useful in he	ospitals	
14.	4. State any one way in which alcohor is ascrain in its	oopitalo.	
,	· cost bingage engaged sub element	Sito you awob attivo	
15.	5. In which one way are perches useful in a poultry	house?	
		• • • • • • • • • • • • • • • • • • • •	
	which melanto is important in the human sain.	n' Lave eno yns evil	
	The state of the s		

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The diagram below shows a proper method of harvesting trees in agroforestry. Use it to answer questions 16 and 17.



16.	Name the method of harvesting trees shown in the diagram above.
17.	State any one advantage of harvesting trees using the method above.
18.	State the danger of seeking shelter under trees when it is raining.
19.	Give any <b>one</b> way in which a school health club promotes health in a school.
20.	Write down any one example of a beverage perennial crop.
21.	Give any one way in which melanin is important in the human skin.



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22.	Mention any one disease that can be worsened due to tobacco smoking.						
23.	State any one function of the placenta during pregnancy.						
24.		spread of tapeworms can be prevented.					
The <b>25</b> a	nd 76	ls. Use them to answer the questions					
	Manual Ma	20 R C1 21 20 R R C1 20 R R R R C1 20 R R R R C1 20 R R R R R R R R R R R R R R R R R R					
	A PE noite up rower es of il s	du mis ip sxism a awaria wala					
 25.	Name the garden tool marked B						
26.	Give any <b>one</b> way in which gard farmers.	den tool marked A is useful to crop					
27.	Give any <b>one</b> way in which the conservation of the environment	use of a gas cooker is helpful in the t.					
28.	State any one way in which a p	eriscope is useful to people.					
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29.	Write down any one example of water impurity.
30.	Give any one disorder of the human digestive system.
31.	Give any <b>one</b> way in which honey is used in industries.
	acrosessos a El covardo sa mestinas II absolt replace words of saladi accorde di sal
32.	State any <b>one</b> way in which the jelly round the eggs of a toad is important.
33.	Name any one vector that spreads germs through contaminating food.
The	diagram below shows a maize grain. Use it to answer question 34 and 36.
	Т
· .	A
34.	Name the part labelled <b>T</b> .
35.	Give the function of the part labelled <b>S</b> to a germinating maize grain.
	eldoed of lightful a processing a military of the end of a series.

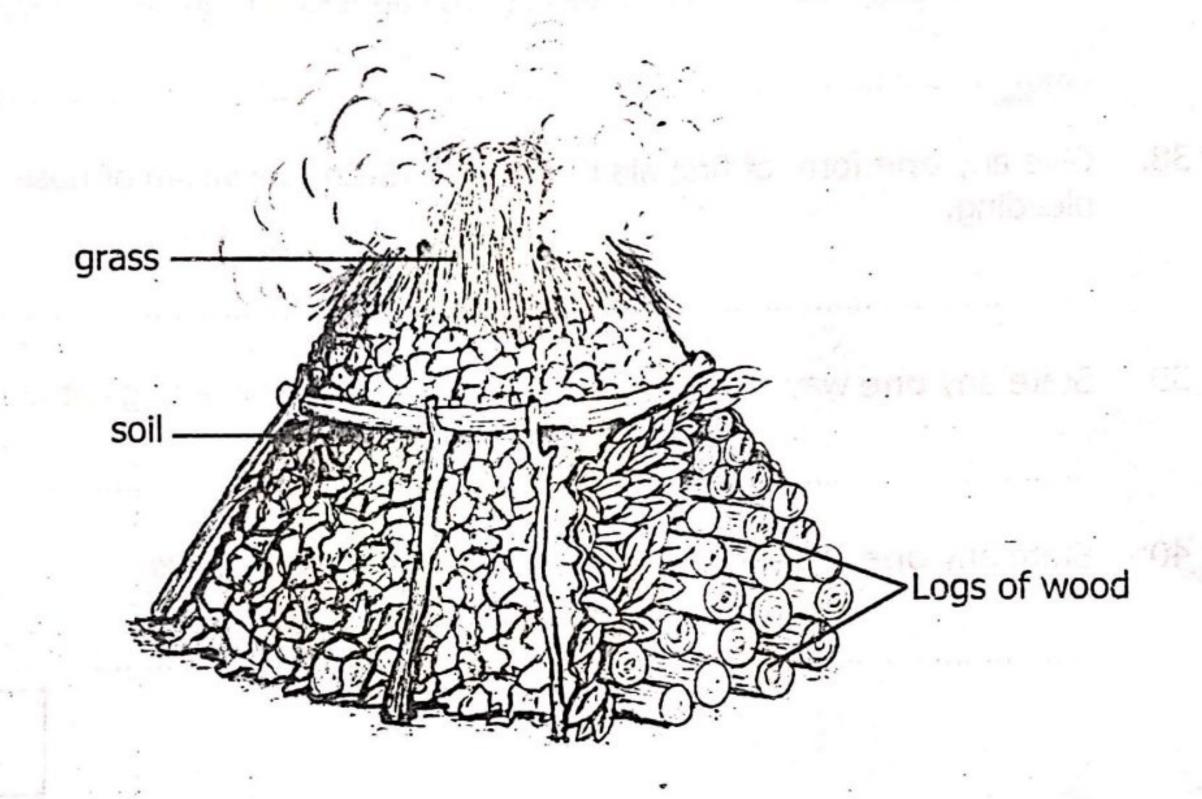
36.	Name the defect that affects the cornea of the human eye.	
37.	Which sexually transmitted disease (STD) attacks the human kidney	?
38.	Give any <b>one</b> form of first aid that can be given to a victim of nose bleeding.	
39.	State any <b>one</b> way in which people can reuse polythene bags at hor	ne.
40.	State any <b>one</b> characteristic of seeds dispersed by animals.	
	SECTION B: 60 MARKS  Questions 41 to 55 carry four marks each	(0)
41.	(a) Name the method used to separate;  (i) beans from stones:	(5)
	(b) State any <b>two</b> effects of heat on liquids.	
	(ii)	





Turn Over

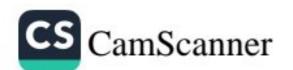
42. The diagram below shows a method used to obtain wood fuel from the kiln. Study and use it to answer the questions that follow.



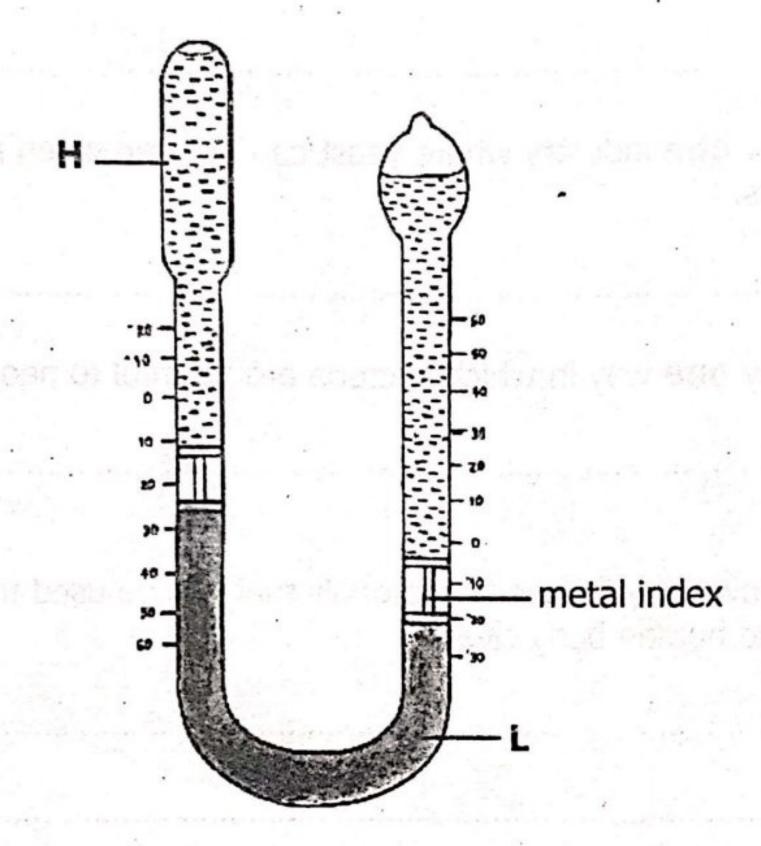
- (a) Identify the wood fuel made from the kiln above.
- (b) Give one importance of the following on the kiln above;
  - (i) Soil:.....
  - (ii) Grass: .....
- (c) State any **one** way in which people can conserve the wood fuel made from the kiln above.

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	(c)	Give any one example of an arachnid which is a parasite to cattle.
		Cive any and evample of an arachaid which is a parasite to cattle
	(b)	State any one characteristic of arachnids.
* "	Priny	(ii)
		(i)
45.	(a)	Apart from arachnids, write down any <b>two</b> other groups of arthropods.
		(ii)
		(i)
	(b)	Give any <b>two</b> ways in which you can identify a clean home.
		(ii)
		(i)
77.	(a)	keep the human body clean.
44.	(2)	Write down any <b>two</b> local materials that can be used to
	(c)	Give any one way in which bacteria are harmful to people.
		•••••••••••••••••••••••••••••••••••••••
	(b)	Give any <b>one</b> industry where yeast can be used when producing products.
	(h)	(ii)
		(i)
43.	(a)	State any <b>two</b> characteristics of bacteria.



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



(a) ·	Name the liquids marked H and L.				
	(i) <b>H</b> :				
	(ii) L:				
(b)	State the importance of the metal index on the thermometer ab	ove.			
(c)	Give any <b>one</b> , reason why the liquid marked <b>H</b> is used in the typof thermometer above.				
altra	of svearages, si ribidw bindbata has to slamake and year avid.				

47.	(a)	State any <b>two</b> ways in which a cattle farmer can control inbreeding in cattle.
,		(i)
		(ii)
	(b)	Give any one exotic breed of cattle kept for meat production.
	(c)	State any <b>one</b> reason why most farmers prefer keeping local breeds of cattle to exotic breeds.
48.		e wanted to demonstrate the weight of a stone in water and air. did the activities as shown:
	(i)	In spring balance 1: The stone was dipped in water.
	(ii)	In spring balance 2: The stone was swinging in air.
		r she observed to find the actual weight of the stone from the ng balance.
	(a)	Given the two media water and air, which of the two made the stone to weigh less?
		entre de la composition del la composition de la composition del la composition de l
	(b)	Give any one reason for your answer in (a) above.
le and	(c)	State any <b>one</b> factor that affected the weight of the stone in the media.
	(d)	Name the units in which Chloe measured the weight of the stone.
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				•			
	(ii)			, i			
	(i)	Cover that he	dalitho die b	16 19 E.W	ter iai	a, b 15 40	•••••
			the at the second of			PORTSIET.	
(b)			s in which f				
	(ii)		paggio tavi s paggar savi s				
	( )	Screw drive		•••••	12 30. 99 thv		
(a)		ne group ongs;	of simple ma	w with the	der un reis u	a General	
/- <b>\</b>	Name - I	.b.a. a	£ .!		ا عام اطرین	6 11	
	(ii)	Q350 1-1970 	0.21900361 120	sos ydas o	(269) \$00 (0.00) \$30 (	VOC ENER	
	(i)						
(c)	Give ar	ny <b>two</b> fun	ctions of ste	ms to a fl	owering pl	ant.	•
		••••••					
	Name	the system	of flowering	plants w	here the s	tems are f	ound
(b)	,			• • • • • • • • • • • • • • • • • • • •			

Twisted neck

12

Shrunken comb and wattle

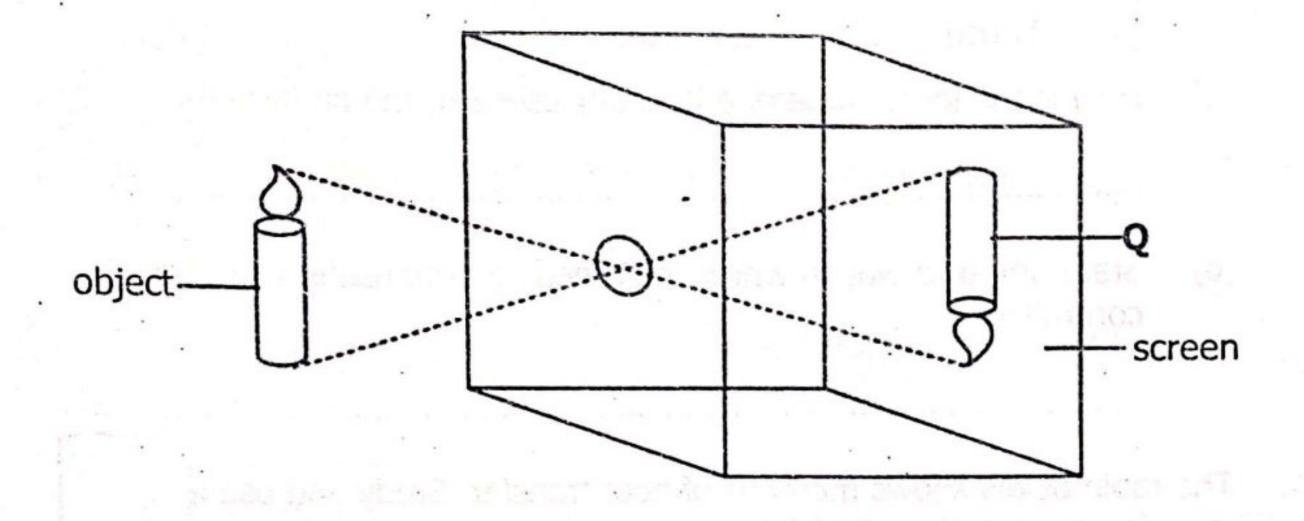
Newcastle

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bacteria

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52. The diagram below shows a pinhole camera. Study and use it to answer the questions that follow.



(a)	State the	principle on	which the	diagram	above works.

) .	Mention any two characteristics of	part marked Q	of the pinhole
	camera		3. 3.

1:1		
(1)	 	··············

(c)	Give the importance of	the screen	on the	camera	above.

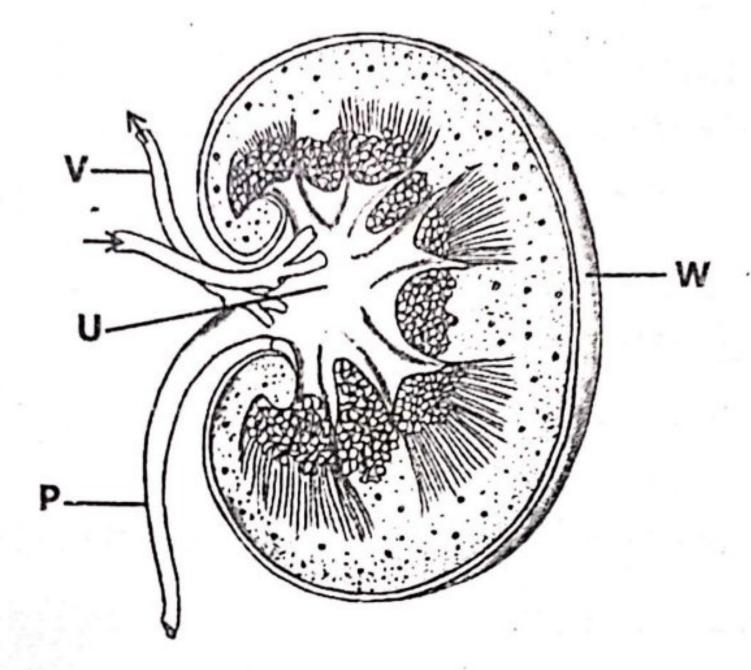
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53.	(a)	Name the disease spread to humans by;
		(i) Infected dog:
		(ii) Louse:
	(b)	How is the larva stage of a housefly useful in the pit latrine?
	•	· · · · · · · · · · · · · · · · · · ·
	(c)	State any <b>one</b> way in which the breeding of houseflies can be controlled.
	٠	
54.		table below shows methods of heat transfer. Study and use it wer the questions that follow.
		Heat Transfer
	500	X Y Convection
		Ice Z
	(a)	Name the methods of heat transfer marked X and Y.
		(i) X:
	(b)	Give any <b>one</b> state of matter that can be put at <b>Z</b> .
	(c)	State any <b>one</b> way in which the method of heat transfer at <b>Y</b> is important to people.

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



(a)	Name the part of the numan kidney marked <b>U</b> .
(b)	Give the function of the parts marked V and W to the human kidney
	(i) <b>V</b> :
	(ii) W:
(c)	State the difference between part ${\bf P}$ of the human kidney and the urinary bladder in the urinary system.
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,

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**END**