SUCCESS INTEGRATED PRIMARY SCHOOL



NAME-

PRIMARY LEAVING EXAMINATION SET 1, 2020 PRIMARY SEVEN

INTEGRATED SCIENCE

Time allowed: 2 hours 30 minutes

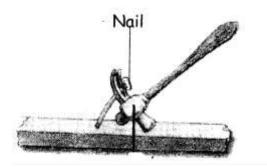
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INDI	EX NUMBER									
EMIS	S NO:				SIGN	NATURI	E:			
DO I	NOT OPEN TH	IIS BO	OKLET (UNTIL Y	OU AI	RE TOLI	O TO D	0 s0		
Read	the following	instruc	tions ca	refully:			FOR	REXAM	MINER'S U	SE ONLY
1.	The paper has	s two se	ections:	A and B	}		Qn. l	No	MARK	SIGN
2.	Section A has	40 que	stions (4	0 marks	3)		1 – 1	0		
3.	Section B has	15 que	stions (6	0 marks	s)		11 –	20		
4.	Answer ALL o	question	s. All ar	nswers to	o both S	ections		20		
	and B must be	e written	in the s	paces p	rovided.		21 –	30		
5.	All answers m	ust be v	vritten us	sing a bl	ue or bla	ack ball	31 –	40		
	point pen or in	ık. Diag	ırams sh	ould be	drawn ir	n pencil.	41 –	43		
6.	Unnecessary	crossing	g of work	may lea	ad to los	s of mar	ks. 44 –	46		
7.	Any handwritii	ng that o	cannot b	e easily	read ma	ay lead to	47 –	49		
	loss of marks.						50 –	52		
8.	Do not fill any	thing in	the boxe	es indica	ated;		53 –	55		
	For Examiner	's use o	nly.				TOT	AL		

"With God all is Possible"

	SECTION A						
1.	Why is vapour in the atmosphere considered as matter?						
2.	2. Mention any one possible cause of dehydration in children.						
3.	Of what importance is a temperature gun to a school?						
4.	Why do most cattle keepers prefer rearing Friesians to other types of dairy breeds of cattle?	-					
5.	What happens to the pollen grains when they land on the stigma of a flower?						
6.	Identify the type of tooth illustrated below						
7.	Mention any one characteristic that makes a cat to be regarded as a carnivorous mammal.						
8.	How does a fish depend on the swim bladders?	-					
9.	What method of heat transfer enables water in a saucepan to boil when put on fire?	-					
10.	Briefly explain how humus is formed.	-					
11.	How do railway line constructors prevent bending of rails during railway construction?						
12.	Give one characteristic that makes enzymes to be easily destroyed by heat.						

Use the diagram below to answer questions 13 and 14.

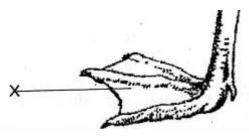
To which group of simple machine does the tool above belong?



	3 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	
By th	the help of an arrow, show the direction of effort.	
Whic	ich blood vessel distributes oxygenated blood to all body parts?	
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- 16. Why do images in a pinhole camera appear upside down on the screen?
- 17. Apart from excretion, write any other importance of sweating to the human body.
- 18. How does smoking lead to lung cancer?
 - 19. Placenta plays an important role during the development of the baby in the womb. How useful is the placenta to the baby?
- 20. Identify the effect of too much diarrhoe and vomiting to a person.
- 21. Which kind of injury of the muscular and skeletal system is caused by over stretched muscles?

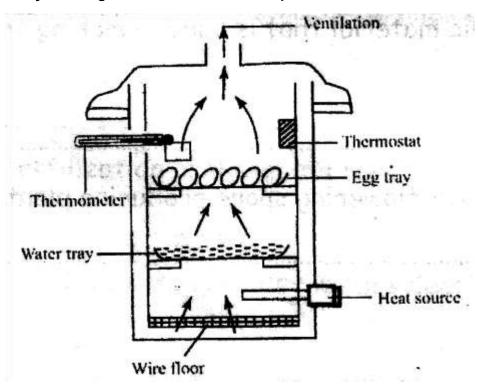
Below is a foot of a bird. Use it to answer question 22 to 23



22.	Which type of foot is shown above?							
23.	To which group of birds does the above foot belong?							
24.	State the usefulness of part X to birds with such a foot.							
25.	Which body organ in humans has the same function as the feelers of a grass hopper?							
26.	Why are drops of water seen around a bottle which has been removed from a fridge?							
27.	State the importance of root hairs to a bean plant.							
28.	Explain a reason why electric wires appear loose on a hot day between poles.							
29.	On the diagram below, show how magnetic lines of force flow.							
	N S							
30.	Where does fertilization in she-goats take place?							
31.	Identify any one factor to consider when selecting a suitable site.							
32.	Identify any one urinary tract infections that can easily lead to contraction of HIV/ AIDS.							
33.	How is dusting of stores using chemical important during storage of grains?							
34.	State the food deficiency prevented by eating fish.							

5.	Mention the type of manure got from rabbitary project.	
6.	How is the small intestine adapted to its role of food absorption?	-
7.	Suggest any one characteristic of seeds dispersed by animals.	-
8.	Why do amphibians lay many eggs?	-
9.	Name the non-metallic material that is used in making the positive terminal of a dry cell.	-
0.	Write down any one non-flowering spore producing plants.	-
1.	SECTION B a) How are monotremes different from other mammals?	-
	b) What name is given to animals that are active at night and sleep during day?	-
	c) Give any two groups of vertebrates besides mammals. i)	-
<u>2</u> .	a) Name the static electricity in nature.	
	b) What force helps the above type of electricity to take place?	-
	c) Give one way in which the electricity in (a) above is a disadvantage in the environment.	-
	d) How is the electricity above helpful to a crop farmer?	-
		-

43. Study the diagram below and answer questions that follow



- a) Name the machine show above. _____
- b) What method of hatching eggs use the machine above?
- c) Give one advantage of using the above machine in hatching of eggs.
- d) Give a reason why the machine above is not commonly used in rural areas.
- 44. a) How is a charcoal obtained?
 - b) During the processing of charcoal, state the reason why each of the following is carried out;
 - i) covering the wood with grass.
 - ii) covering the wood and grass with soft/ moist soil.
 - c) Mention one material recommended for stopping charcoal from burning during it's harvest.
- 45. a) What are resources?

Uŝ	se the diagram below to answer questions that follow					
a)	Name part marked Z					
b)	Why is part marked z coiled?					
c)	State the energy changes that occur in the bulb when the circuit is complete.					
d)	Give the function of part marked Y.					
a) What is temperature?						
b)	How does increase in temperature affect plants?					
c) Give one reason why mercury is used in thermometers.						
d)	Convert 77°F to Celsius scale.					

48.	The diagram below shows parts of the lungs. Use it to answer questions that follow.							
	A TO THE RESIDENCE OF THE PARTY							
	a) Identify the structure drawn.							
	b) By what process does gaseous exchange take place in the structure above?							
	c) Name the gas marked X.							
	d) Identify any one disease that attacks the respiratory system.							
49.	a) Describe the term active smoking.							
	b) Give one reason why people smoke.							
	c) State one difference between drug abuse and drug misuse.							
	d) Identify any one non-infectious disease caused by smoking.							
50.	a) Write VIP in full as used in sanitation.							
	b) State the function of the following parts on a VIP latrine;							
	i) Vent pipe							
	ii) Screen							
	c) Suggest one way of reducing bad smell in an ordinary pit latrine.							

a) Complete the diagram below	
54°	
b) Calculate the angle of inciden	nce (2marks)
c) State the law of reflection of li	ight
- C) State the law of reflection of h	
2. a) Describe the following terms a	as used in sound energy.
i) Pitch	
ii) Volume	
b) Give any one method of storin	g sound energy
c) How can stored sound be rep	roduced?
3. Match the following excretory	organs with their excretory products
Excretory organs	Excretory products
Liver Skin	water vapour excess sugar
Kidneys	lactic acid
Lungs	urine
a) Liver	
b) Skin	
c) Kidneys	
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54.	a) Describe the term milking.										
	b) Identify one way of obtaining clean milk during milking process.										
	c)) State the importance of a strip cup during milking process									
	d)	Give any one method of preserving milk.									
55.	Study the list or organisms below;										
	ca	terpilla	ar,	hen,	cabbage,	eagle					
	a)	Whic	h of the a	above organi	sm is;						
		i) primary consumer									
		ii)	tertiary	consumer_							
	b)	Name the source of energy needed by the producer to make its own food.									
	c)	c) Using the above organisms, construct a food chain.									