CLEVERS' ORIGIN JUNIOR SCHOOLS

PLE TEST 2022

PRIMARY SEVEN

	BASIC SCIENCE AND HEALTH E	DUCATION	<u>NC</u>	
	Time allowed: 2 hours 15	5 minutes	•	
Inde	x No.			
Can	didate's Name:			
Can	didate's Signature:			
Scho	ool Name:			
Reac	I the following instructions carefully:	FOR EXA	MINER'S U	SE ONLY
1.	The paper has two sections: A and B			
2.	Section A has 40 questions (40 marks)			
3.	Section B has 15 questions (60 marks)	FOR E	XAMINER' ONLY	S USE
4.	Answer ALL questions. All answers to both Sections A			<u> </u>
	and B must be written in the spaces provided.	Qn. No	MARK	SIGN
5.	All answers must be written using a blue or black ball	1 – 10		
	point pen or ink. Diagrams should be drawn in pencil.	11 – 20		
6.	Unnecessary crossing of work may lead to loss of marks.	21 – 30		
7.	Any handwriting that cannot be easily read may lead to	31 – 40		
- •	loss of marks.	41 – 43		
8.	Do not fill anything in the boxes indicated;	47 – 49		

Turn over

50 - 52

53 - 55

TOTAL

For Examiner's use only.

SECTION A: 40 MARKS

Questions 1 to 40 carry one mark each

1.	Name the body sense that helps to tell the taste of sugar in tea.
2.	Give one reason why farmers mulch their gardens.
3.	Why does a fish die when removed out of the water?
4.	How does refrigeration prevent milk from going bad?
5.	Use the diagram to answer the questions that follow. Identify one bird with this type of foot.
6.	How useful is such type of feet to this group of birds?
7.	What is the role of sunlight during photosynthesis?
8.	How is the use of a vent pipe different from that of a screen?
9.	Where does the tsetse fly lay its eggs?

11.	What physical process changes ice to gas?
12.	Give one disadvantage of friction in machines as a nuisance force.
13.	Give the use of a fuse in an electric circuit.
14.	Study the diagram and answer the questions that follow.
	X Name the pole of the magnet marked X.
15.	Identify the property of magnets shown above.
16.	Apart from bats, name one vertebrate that makes echoes in the environment.
17.	Identify any one sex offence common in schools today.

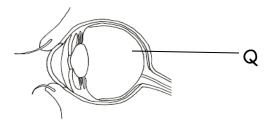
10. Give the importance of the garden tool below to a crop farmer.

18.	Give one danger of sharing a room with potted plants at night.
19.	Why are electric wires fixed loosely on the poles during their connection?
20.	Name one insect pest that attacks root crops.
21.	Calculate the density of an object whose mass is 10gm and volume 40cc.
22.	Apart from wearing shoes, suggest one other way of preventing hookworm infection
23.	How useful are tendons at a joint?
24.	Name one insect that protects itself by stinging apart from bees.
25.	What is the gestation period of a ewe?
26.	Give one health reason for ironing clothes.
27.	The diagram shows a part of a flowering plant.



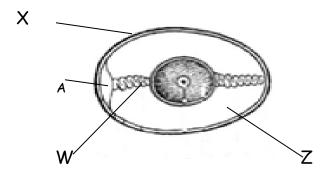
Nar	ne the importance of part y to a pumpkin.
28.	Name one human activity that results into air pollution.
29.	Besides using a child health card, how can you identify a child who has been immunized against tuberculosis?
30.	Write one natural method of controlling rats in a home.
31.	How is a housefly useful in a home during the larvae stage?
32.	Give one importance of PIASCY messages at school.
33.	State one activity family members can do to promote personal hygiene.
34.	How is lightning formed during a thunderstorm?
35.	Why is an approaching plane seen before the sound is heard when it is overhead?
36.	How can you separate a mixture of sugar and powder of steel wire?
37.	Give the importance of a health survey to the government.
38.	How important is a stretcher in carrying out first aid?

39. Give the role of the part marked Q to the eye of a dog.



40.	Why should a baby who has swallowed jik when washing be made to vomit?
	SECTION B
	Questions 41 to 55 carry four marks each.
41 (a) What is germination?
(b)	Identify the type of germination undergone by ground nuts.
(c)	Besides water and oxygen, give one other condition necessary for seed germination
(d)	What type of leaf venation does a ground nut have?

42. The diagram shows the internal structure of a bird's egg.



(a) Name parts \boldsymbol{W} and \boldsymbol{Z} .

(i)	W	
(ii)	Z	
(b)	Besides protection, give one use o	of part x to an egg.
(c)	Why may a fertilized egg fail to h	natch?
43.	(a) Give any two problems an adole dropping out of school.	escent girl who gets pregnant may face besides
(i)		
(ii)		
(b)	Identify any two groups of people	e who are vulnerable to AIDs.
(i)		
(ii)		
44.	Match items in A with those in B.	
	<u>A</u>	<u>B</u>
(i)	Storage of semen	Carbon dioxide
(ii)	Welding metals	rare gases
(iii)	Making electric bulbs	Oxygen
(iv)	Preservation of drinks	Carbon monoxide
		Nitrogen
(a)	Storage of semen	
(b)	Welding metals	
(c)		
(d)		
• •	(a) Identify any one common drug o	
·	· · · · · · · · · · · · · · · · · · ·	

(b)	Give one reason why people commonly abuse drugs.
	State any two dangers of drug abuse to: individual
(ii) a	family
46.(a)	How is a strain different from a sprain?
(b)	Write down any one disorder of the; Muscles
(i) (ii)	Bones
(c)	Give one health habit that helps to keep the skeletal system in healthy working condition.

47. The diagram shows a domestic appliance. Use it to answer questions that follow.



a)	Name part C .		
(b)	How does part B work?		
(c)	Name any one material used		
(d)	Give one use of the instrume	nt above at home.	
48. ((a) Name one natural componen	it of soil.	
(b)	A part from weathering, give	one way how soil is formed.	
(c)	What role do earthworms pla	ay in soil formation?	
(d)	What is soil exhaustion?		
49.	The diagram shows a nature questions that follow.	al process in our environme	nt. Use it to answer
G	irass grasshopp	er bird	snake

(a) (b)	Use arrows to show the relationship between the organisms numbered from 1 to 4 What name is given to this kind of relationship?
(c)	What is the scientific name given to organisms labeled 3?
(d)	Give the role of part 4 in the environment.
50. ((a) What are inexhaustible resources?
(b) (i) (ii)	Give two ways of conserving trees as a natural resource.
(ii) (c)	How does a clay stove conserve heat?
51a)	To which group of vertebrates does a tadpole belong?
(b)	Give one importance of tadpoles in our environment.
(c)	How is breathing of a tadpole different from its adult?
(e)	Name one animal that belongs to the same family with tadpole.

52.	a) Apart from kidney, name one other excretory organ protected by the skeleton
(b)	Name the excretory product secreted by the kidneys.
(c)	Give one disease of the skin.
(d)	State one way of keeping the skin in a good working condition.
53.	The diagram below shows an electric lamp. Answer questions on it.
a)	Name part R.
(b)	Why is oxygen gas not used in part 5?
(c)	Give a reason why partT is usually coiled?
(d)	Identify any one gas found in part S.
54a)	Give the importance of pulley at school besides pulling up or down the school flag.

(b)	Calculate the effort needed to lift a load of 200N using a single movable pulley. (2 marks)
(c)	Give one factor that may reduce the efficiency of a pulley.
55.	a) What is food preservation?
(b) (i) (ii)	Name two modern methods of food perseveration.
(c)	What is food insecurity in the conservation of food?

END

P.7 Science PLE PREP 7 Marking guide 2017

- 1. Tasting / sense of taste.
- 2. To conserve soil moisture/ soil fertility/control erosion/ weeds
- 3. The gills dry out in the free dry air.
- Prevents the bacterial from multiplying / keeps bacteria dormant
- 5. Parrots/ wood peckers
- 6. For climbing trees
- 7. Provides sunlight (heat) energy
- 8. A vent pipe takes out bad smell / stale air from the pit while a screen helps to trap house flies
- 9. It hatches its eggs inside the abdomen and lays the larvae in the soil.
- 10. To dig rocky soil / To harvest root crops / To narrow the garden
- 11. Sublimation
- 12. Slows the speed of machines / causes wear and tear / cause unnecessary heating in machines
- 13. To protect electric appliances from damage in case of a surge / power outage.
- 14. North pole
- 15. A magnet is stronger at the poles.
- 16. Whales / Dolphins
- 17. Rape / Defilement/ Abortion/ Sodomy/ Lesbianism.
- 18. Leads to competition for oxygen since plants also use it for respiration at night.
- 19. To leave room for contraction on cold days/ To prevent breaking of wires due to contraction during very cold weather.
- 20. Potato weevils.
- 21. $D = \underline{M} = 10g = \underline{1} = 0.25g/cc$ V = 40cc = 4
- 22. Washing hands after using the latrine / toilet washing fruits and vegetables before eating.
- 23. Tendons join muscles to bones.
- 24. Wasps / soldier ants / blank ants
- 25. 5 months / 150 days
- 26. To kill parasites / germs / remove odour (bad smell)
- 27. To produce / store pollen grains.
- 28. Bush burning / poor waste disposal / release of industrial wastes / dumping of chemicals/exhaust fumes from driving vehicles.
- 29. Checking the scar on the right upper arm
- 30. Using cats to eat rats/ some communities hunt and eat them.

- 31. The maggots help to reduce the volume of faeces (break down faeces) in a pit latrine.
- 32. To prevent children from dropping out of school / prevent them from STDs/ prevent early marriages / early pregnancies.
- 33. Bathing/ washing clothes / brushing their teeth/ ironing clothes / grooming hair and nails
- 34. Friction between clouds / discharge of electrons from one charged cloud to another/ discharge of electrons from clouds to the earth or positively charged objects on earth
- 35. Light travels faster than sound./ speed of light is faster than speed of sound.
- 36. Using a magnet to attract the iron powder.
- 37. To help for social services
- 38. To transport (carry) casualties who can't walk
- 39. To form images
- 40. It may lead to damage of other body **SECTION B**
- 41.
 - a) Development of a seed into a seed ling
 - b) Epigeal germination
 - c) Warmth / Optimum / right temperature
 - d) Reticulate / network venation
- 42.
 - a) (i) chalaza / twisted albumen
 - (ii) Germinal disc/embryo
 - b) To give shape / To allow gaseous exchange as it is porous.
 - c) If the air space is blocked / embryo dies / the embryo fails to get air and moisture/ when the egg is cracked.
- 43. -
- (a) Forced marriage / early marriage / may get STDs/ may suffer social stigma/ rejection by parents or boy friend / may risk abortion / die in course of delivery.
- (b) Distant truck drivers / business men/ traders/ street kids/ soldiers in front line areas / policemen on duty away from home / street sex workers/ prostitutes.
- 44. (a) Storage of semen Nitrogen (b)Welding metals - Oxygen (c)Making bulbs – Rare gases
 - (d) Preservation Carbon dioxide
- 45. -(a) Alcohol /tobacco / Mirra / Marijuana/ Khat/ Opium/ Cocaine
- (b)To feel happy / warm/ join peer groups / wrong adverts / feel mature.

- (c) (i) brain damage / personal neglect / loss of job(ii)Loss of family income / spouse abuse / family neglect
- 46. (a) Strain is a torn or overstretched tendon while sprain is a torn or over stretched ligament / strain affects muscles while a sprain affects joints.
 - (b) (i) cramp / spasm/ tear of muscles / cuts(ii) crack / fracture
 - (c) Eating a balanced diet / physical exercises.

47. -

- a) Vacuum seal
- b) Prevents heat loss or gain by radiation
- c) Wood / plastic / rubber
- d) To keep hot things hot or cold ones cold.
- 48. (a)Bacteria / earth worms/ termites / living organisms
 - (b)Decomposition of organic matter
 - (c)They aerate the soil / their droppings make soil fertile
 - (d)Loss of soil fertility due to over use

49. -

- (a) Grass Grass hopper → Bird → snake
- (b) Food chain
- (c) Primary consumers
- (d) They make food / purify air / give Oxygen

50. -

- a) Resources that can not be used up
- b) Afforestation / re-afforestation /agroforestry
- c) It retains heat and looses it slowly because it is an insulator of heat

51. -

- a) Amphibians
- b) They control malaria by eating the larvae
- c) A tadpole uses gills while the adult uses lungs or moist skin.
- d) Newts / Salamanders / blind worms/ cecallians

52. -

- a) Lungs
- b) Urine
- c) Scabies/ Eczema / Ring worms / skin cancer
- d) Eating a balanced diet / bathing regularly/ avoid bleaching / tattooing / piercing the skin.

- (b) Oxygen supports burning so it would burn off the filament
- (c)To increase the surface area for healing / electrical resistance.
- (d)Nitrogen / neon / argon / xenon / krypton
- 54. (a) Drawing curtains / taking up building materials
- (b) $E = \underline{L} / E = \underline{200N} / E = 100N$ MA 2
- (c) Friction / pull of gravity.
 - 55. (a) A way of keeping food free from germs or contamination.
 - (b) Refrigeration / deep frying / pasteurization/ canning / tinning / bottling.