

#### **SEETA-EXAMINATIONS COMMITTEE**

#### **SPECIAL SET FOUR 2022**

# **Integrated Science**Time allowed: 2 hours and 15 minutes

INDEX	NUMBER											
NAME:												
Sig	gnature: _								YAMTI	NER'S	_ USE O	NI V
St	ream _						_	<u></u>	A		CDE OI	.111
En	nis No _	<del>-</del>							В	<b>,</b>		
	Read th	e follov	ving in	structi	ions ca	refully:			TO	TAL		
1.	The pap	er is m	ade up	of sec	ction A	and B.						
2.	Section	A has 4	40 shor	t answ	er que	estions (	40 maı	ks).				
3.	Section	B has 1	15 ques	stions (	60 ans	wers).						
4.	Answer	ALL q	uestio	ns. All	answe	rs to bo	th sect	ion A a	nd B n	nust b	e written	in
	the spac	es prov	vided.									
5.	All answ	vers m	ust be v	written	in blu	ie ink.						
6.	Any har	ndwriti	ng tha	t canno	ot easil	y be rea	ad will	lead to	loss of	mark	S.	
7.	Unneces	ssary a	lteratio	on of w	ork m	ay lead	to loss	of mar	·ks.			
8.	Do not v	write a	nythin	g in the	e box i	ndicate	d for ex	kamine	r's use	only.		
	PARI	ENT'S	COM	MENT	Γ				SIG	NATU	URE	

**SECTION A (40 marks):** Mention the class of food that is necessary for steaming up a pregnant 1. cows. 2. Give one way man has used the process of condensation. Point out one substance needed by plants during photosynthesis and 3. germination. The farming practice below shows one of the care given to seedlings after transplanting. shelter seedling Why does a farmer provide shelter to the seedling after transplanting? 4. 5. How is the movement of the larva stage of a mosquito different from that of the adult mosquito? Which method of obtaining wood for timber involves cutting a tree at 6. an angle to a stump level? Name one of the long bones found below the knee. 7.

Point out one activity that can be done during community clean up

8.

compaign.

9.	Why doesn't wood burn to ash during the making of charcoal?
10.	Which system of poultry keeping keeps eggs away from layers?
11.	How is reproduction of a moss plant different from that of a maize plant?
12.	Which substance is suitable for sterilizing a clinical thermometer?
13.	Why should one wash hands before preparing sugar salt solution?
14. soil?	What term is used to describe the upward movement of water through
15.	How do double silvered walls in a thermos flask prevent heat loss?
16.	Why are farmers encouraged to harvest rain water?
	How is the awareness of communicable diseases important in our nunity?
18.	To which group of succulent fruits do tomatoes belong?
19.	Apart from drying clothes, why should clothes be hanged on a line in the sunshine on a hot day?
20.	How is propagation of bananas similar to that of pineapples?

21.	Which method of making water safe for drinking commonly used by national water and sewerage cooperation?
22.	Which vector spreads the filarial worm that cause river blindness?
23.	State the importance screening blood before transfusion.
24.	Point out one method of controlling weeds in a garden.
25.	What do ticks feed on?
26.	State the role of ligaments in a human skeleton.
27.	Which disease makes rabbits have wounds in the ears?
	The diagram below shows the health habit above by people in
	the community.
28.	How does the health habit above prevent the spread of diarrhoeal
28. disea	
disea	ses?

31.	Why are lactating cows fed on dairy meal?
32.	Give one similarity between sound and light energy?
33.	Point out one way of keeping the respiratory system in the good health condition.
34. ventr	Why is the wall of the left ventricle thicker than that of the right icle?
35.	Why should girls who have started experiencing menstruation cycles obstain from sex?
36.	Apart from determining the colour of the skin, how else is melanin important to the body?
37.	Convert 65°C to °F.
38. curre	Name the device that protects appliances from the effects of too much ent flow.
39.	Why is salt added to food during cooking?
40. paral	Which immunisable disease makes limbs of infants very thin and yzed?

#### Section B (60 marks)

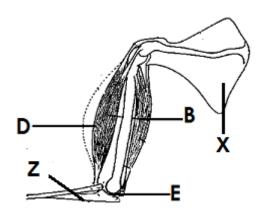
# 41. Study the diagram below and answer the questions that follow.



- To which group of vertebrates does the animal above belong? (a) (b) Name Y. Give the function of the parts below. (c) (i) X \_\_\_\_\_ (ii) 42(a) What is food preservation? (b) Point out one traditional method of preserving meat in your homes. How is the preservation of millet similar to that of cassava? (c) (d) Name the fungus that commonly grows on food items that are not properly dried. Give the meaning of the following terms: 43. condensation (i) Evaporation (ii)
- (iii) Melting

## (iv) Convection

## 44. The diagram below shows a human arm.



(a)	Name the type of bone::
(i)	X
(ii)	Z
(b)	
(c)	What type of movable joint is E?
45(a	) How do fish reproduce?
	In which two ways do fish help to improve health of people in the munity?
(i)	
(ii)	
(c)	Point out one other group of vertebrates whose eggs are fertilized like
thos	e of fish.

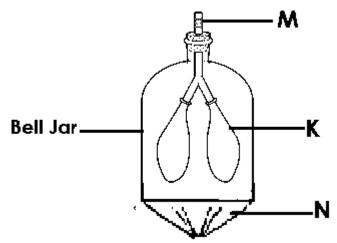
46(a)	Name one viral disease among the six childhood immunisable diseases.
(b)	How is such a disease in 46(a) above spread?
(c)	Point out one way of controlling the diseases mentioned in 46(a) above
(d)	How are ventilators important in a living house?
47(a)	) What is incubation?
(b)	Give one advantage of artificial incubation in poultry management.
(c)	Of what importance is litter in the poultry house?
(d)	Mention one factor that may make a fertilized egg fail to hatch.
48(a)	In which type of digestion is food broken down by enzymes?
(b)	Of what importance are teeth in our mouth during digestion?
(c)	Why doesn't digestion of carbohydrates take place in the stomach?
(d)	Point out one disorder of the digestive system.
49.	The diagram below is of a burning candle.

•	pe of change that occurs in parts marked U and X.					
	Give one characteristic of the type of change marked X above.					
Give one cha	ange in the environment caused by human activities.					
Match the i	items in list A with those in B.					
A	В					
lungs	urine					
kidney	bile pigment					
liver	sweat					
skin	carbon dioxide					
lungs						
kidney						
liver						
skin						
	son why the following practices are done on an anima					
1:						
steaming up						
shearing 						
ما ما المام						
docking						

(d)	Dipping	cattle
• /		

52(a) <b>11</b> 110 15 an addicectic	52(	(a)	Who	is	an	ado	lescent?
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- (b) Point out one primary sex characteristic that occurs in adolescent girls.
- (c) Give two secondary sexual characteristics that occur in both female and male adolescents.
- (i) \_\_\_\_\_
- (ii) \_\_\_\_\_\_53(a) What causes AIDS?
- (b) How is AIDS commonly spread among adults?
- (c) State one common sign to both AIDS and measles patients.
- (d) Point out one way a P.7 child can prevent himself or herself from getting AIDS.
- 54. The diagram below shows on of the body system.



(a) Name the body system represented by the diagram above.

(b) What does part marked M represent? What would happen to part marked K if N is pushed upwards? (c) (d) Point out one habit which is destructive to the body system above. 55. The diagram below are of spawns of the amphibians. Which amphibian lays eggs marked A? (a) (b) Give two importance of the jelly on the eggs marked B. (i) (ii) How is breathing of a tad pole different from that of its adult? (c)