ARALL EXAMINATIONS BOARD

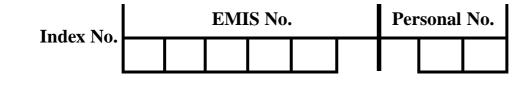


P.7 SPECIAL SET 5 OF 10 2025

INTEGRATED SCIENCE GUIDE



Time Allowed: 2 hours 15 minutes



COMPILED: BY SIR.ARALL 0767357977 TR. MUBIRU JAFFER 0704597973 TR. KEEFAH RONALD 0790602945

Read the following instructions carefully:

- Do not forget to write your school or district name on the paper.
- This paper has two sections: A and B.
 Section A has 40 questions and section B has 15 questions. The paper has 10 printed pages altogether.
- Answer all questions. All working for both sections A and B must be shown in the spaces provided.
- 4. **All** answers **must** be written using a **blue** or **black** ball point pen or ink. Any work written in pencil will **not** be marked.
- 5. Unnecessary **changes** in your work and handwriting that cannot be read easily may lead to **loss of marks**.
- Do not fill anything in the table indicated:
 "For Examiners' use only" and boxes inside the question paper.

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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Turn Over

SECTION A: 40 MARKS

Questions **1** to **40** carry **one** mark each.

1. Write any **one** natural source of sound.

Man // birds // cow // a dog // thunder

2. State the type of clouds that resemble cotton piles in the sky.

✓ Cumulus clouds

3. How are monotreme mammals similar to birds in terms of fertilization.

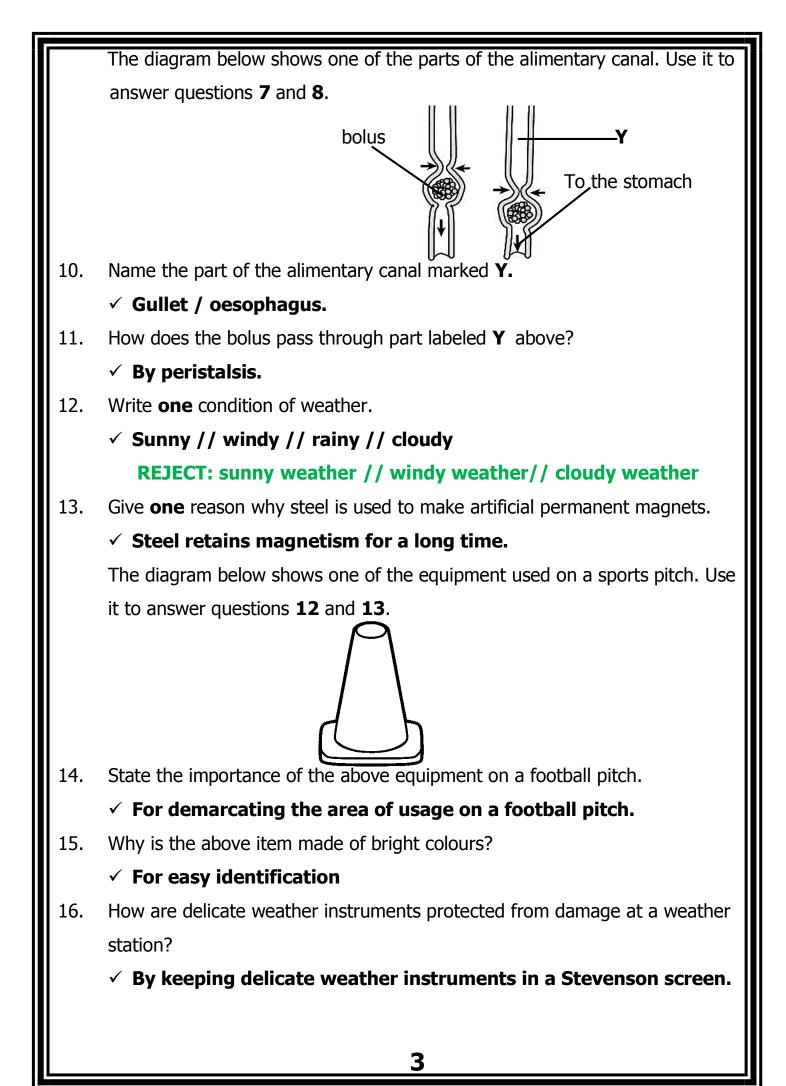
✓ Both monotremes and birds undergo internal fertilization.

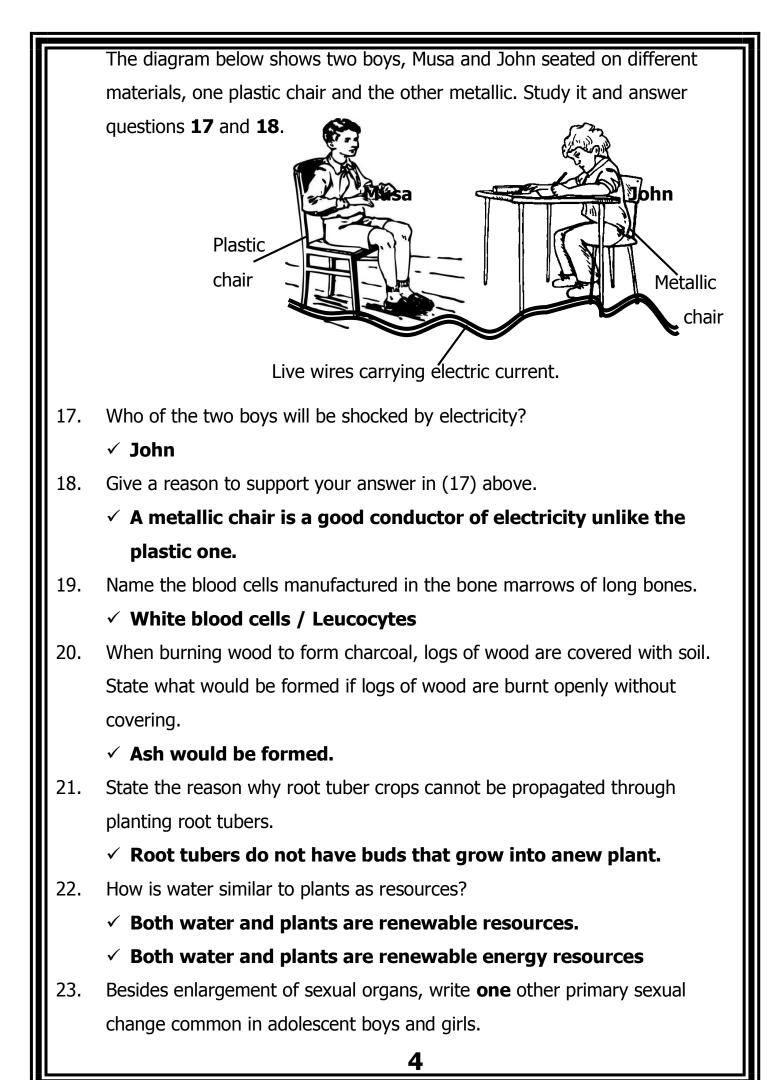
4. Write **one** role played by a school health committee in the control of ringworm at school.

A school health committee promotes proper personal hygiene among school children.

- 5. State the main feature of sand soil which makes it suitable for cleaning utensils like saucepans.
 - ✓ Sand soil has rough texture.
 - ✓ Sand soil has rough soil particles.
- 6. Give **one** way how cooks retain heat in the saucepan during cooking.
 - \checkmark By covering food with banana leaves.
- 7. Besides identification, how is a comb important to a bird?
 - ✓ For temperature regulation.
 - ✓ For attraction of female for mating.
- 8. Mention **one** importance of physical changes in the environment.
 - ✓ Evaporation helps to separate mixtures.
 - ✓ Condensation helps in the formation of rain.
 - ✓ Freezing helps in the preservation of food stuffs.
- 9. Name the part of a tap root which protects the growing tip from mechanical damage.

✓ Root cap





Production of gametes (reproductive cells)

✓ Development of gonads.

- 24. State the function of white blood cells in the body.
 - \checkmark To defend the body against diseases.

✓ To fight against germs.

25. What type of pollination occurs in a flower where filaments grow taller than the style?

✓ Self-pollination

26. Mention **one** biological way of controlling weeds.

✓ Keeping bioagents // Grazing/feeding animals on weeds

27. How do cattle protect themselves from enemies?

✓ By goring

28. Give the similarity between yeast and amoeba in terms of reproduction.

\checkmark Both yeast and amoeba undergo asexual reproduction.

29. Write down **one** advantage of hand milking.

$\checkmark\,$ Hand milking is cheap // it does not need skilled labour.

30. Name the substance in tobacco smoke which stimulates the releases of dopamine in the body.

✓ Nicotine REJECT: tar

31. How does stale air from the VIP latrine pass through the vent pipe?

✓ Through convection.

32. Name the intestinal worm which feeds by diffusion.

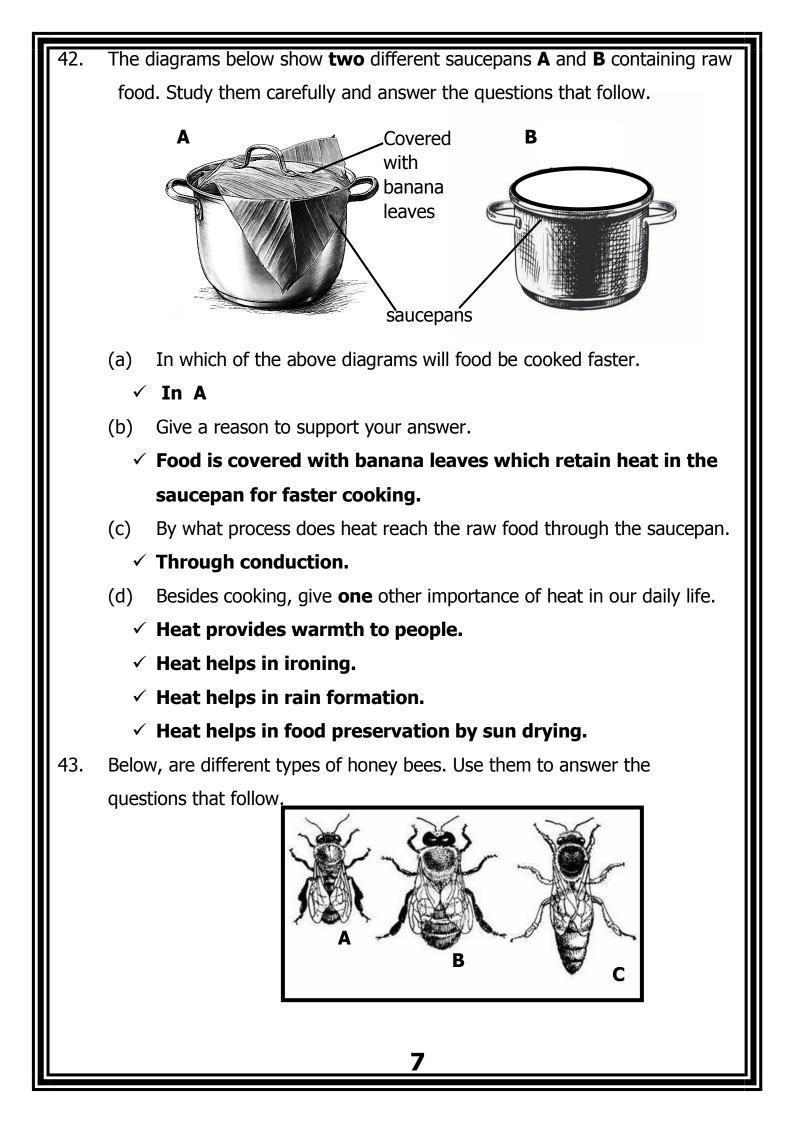
✓ Tapeworm

33. Give **one** way how the item below can be of use on a cattle farm.



- 34. State any **one** substance absorbed in the stomach.
 - ✓ Simple sugar // common salt // Alcohol / drugs

35.	Give one type of lice which attacks people.
	✓ Crab lice // hair lice // body lice
36.	Name the part of a VIP which may control the spread of trachoma.
	✓ Fly screen/Screen
37.	A P.7 candidate broke down a bar magnet in two equal parts. What
	happened to each piece of the bar magnet?
	 Each piece of a magnet became an independent magnet.
38.	How do birds benefit from their hollow bones?
	 Hollow bones reduce the weight of a bird for easy flight.
39.	What type of mosquitoes lay eggs with air floats?
	✓ Female anopheles mosquito
40.	Name the deficiency disease prevented by feeding on the food value
	obtained from fish.
	✓ Kwashiorkor REJECT: Proteins
	SECTION B: 60 MARKS
	Questions 41 to 55 carry four marks each.
41.	(a) State the energy changes which take place in the following gadgets:
	(i) Dynamo - mechanical energy inform of kinetic energy
	changes to electrical energy.
	(ii) Percolator - electrical energy changes to heat energy.
	(b) Write any one living source of electricity.
	✓ Electric eel
	(c) How does rural electrification help to conserve natural animal habitats
	like forests?
	\checkmark Rural electrification reduces the rate of deforestation.
	\checkmark It discourages deforestation.
	6



(a) Which of the above bees lays e	eggs in the hive?			
✓ Bee C				
(b) Write any two duties of a worker bee in a hive.				
 Cools the temperature in the hive. 				
\checkmark Feeds the grubs.				
Makes honey // guards the hive.				
Makes royal jelly for the queen to feed on.				
(c) What food value do we obtain from eating honey?				
✓ Carbohydrates				
44. Match the following elements of PHC	to their activities correctly.			
Α	В			
Water and sanitation	dental flossing.			
Maternal and child health	draining stagnant Water.			
Family planning	prolonged breast feeding.			
Oral and dental health	immunizing pregnant women with T.T Vaccine.			
(i) Water and sanitation - draining	stagnant water			
(ii) Maternal and child health – imm	unizing pregnant women with TT			
vaccine				
(iii) Family planning – prolonged br	east feeding.			
(iv) Oral and dental health – dental f	flossing			
45. (a) To what type of change do we g	roup digestion in man?			
✓ Chemical change				
(b) Write two ways of managing bo	dy changes.			
✓ Bathing daily.				
✓ Shaving overgrown pubic h	air.			
(c) Why is burning referred to as a	-			
_	urning forms anew substance. 8			

46. (a) What does letter "I" stand for in the abbreviation PIASCY?

✓ Initiative

(b) Give **two** life skills that children get through **PIASCY** messages.

✓ Self esteem // self-awareness

✓ decision making // assertiveness

(c) Write the **PIASCY** message which helps to the prevent **HIV/AIDS**.

$\checkmark\,$ Abstinence / abstinence from sex

47. The diagram below shows a skull of a certain mammal. Use it to answer the questions that follow.



(a) To which sub class of mammals do animals with such a skull belong?

✓ Carnivorous mammals

(b) What kind of food do such mammals feed on?

✓ Flesh

(c) How is an animal with such a skull adapted to its mode of feeding?

$\checkmark\,$ It has well developed canines for tearing flesh.

(d) Give **one** example of an animal with such a skull.

✓ Dog // hyena // domestic cat // tiger

48. (a) Name **two** examples of fuel obtained from crude oil.

✓ Petrol // diesel/kerosene

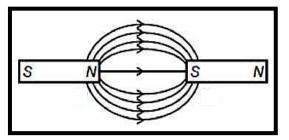
(b) How are the fuels mentioned in **48(a)** above separated from crude oil?

✓ By fractional distillation

- (c) Under which principle does the method in (b) above work?
 - $\checkmark\,$ Different liquids have different boiling points.

49.	(a) Give two functions of muscles to the human body.
	 Muscles help in body movement through contraction and
	relaxation.
	 Muscles help animals to perform heavy duties.
	\checkmark Muscles of the heart help to pump blood.
	\checkmark Muscles of the eye regulate the amount of light entering the
	eye.
	(b) Name one organ in the body made of cardiac muscles.
	✓ The heart
	(c) Give the main reason why biceps and triceps are called antagonistic
	muscles.
	\checkmark Biceps and triceps work in pairs and oppose the action of
50.	each other. (a) Name the force which:
	(i) holds molecules of water together.
	✓ Cohesion force
	(ii) enables small insects like mosquitoes to stand on water.
	✓ Surface tension
	(b) Give two ways we can use " air exerts pressure " in our daily life.
	\checkmark It enables us to drink water using a straw.
	\checkmark It enables a cesspool emptier to suck wastes from the septic
	tank.
	\checkmark It enables a kite to fly in air.
	 It enables a doctor to inject medicine in a patient's body.
51.	(a) Write two uses of magnets.
	 Magnets are used in electric bells.
	 Magnets are used in loud speakers.
	Magnets are used in compasses to show direction.
	\checkmark They are used in dynamos and generators to produce
	electricity.
	10

- (b) State the property of a magnet which enables a pilot to find direction.
 - ✓ A freely suspended magnet will always rest in North-South direction.
- (c) In the space provided below, draw an illustration of magnets to show that "unlike poles attract"



52. (a) Why are rabbits given a block of salt to lick?

\checkmark To provide mineral salts to the rabbits.

(b) Okello's rabbits have difficulty in breathing. Which disease are they suffering from?

✓ Pneumonia

- (c) Mention **two** advantages of keeping rabbits over cattle.
 - Rabbits require a small piece of land while cattle need a bigger piece of land.
 - ✓ Rabbits consume little food unlike cattle.
 - ✓ Rabbits multiply faster than cattle.
 - \checkmark Rabbits are cheaper than cattle in terms of management.
- 53. (a) Write **two** agents of seed dispersal.
 - ✓ Water // Explosion
 - ✓ Animals // wind
 - (b) How are coconut seeds dispersed?
 - ✓ By flowing water/ through water dispersal.
 - (c) Give **one** way seed dispersal prevents extinction of plant species.
 - ✓ Plants colonise new areas hence reducing the chances of extinction.

54.	(a) Write two	components of plan	nt glucose made during	photosynthesis.		
	✓ Carbon dioxide					
	✓ Water					
	(b) How does photosynthesis purify air?					
	\checkmark By absorbing or trapping carbon dioxide from the atmosphere.					
	(c) Briefly write about a variegated leaf.					
	 A variegated leaf is a leaf with many colours. 					
55.	55. Use the words given in the box below to fill in the spaces below.					
		methane gas	fermentation			
		methane gas anaerobic	fermentation sludge			
	Biogas is met l	anaerobic		ermentation of		
	-	anaerobic hane gas that is pro	sludge			
	organic matter	anaerobic hane gas that is pro	sludge duced by rotting and f	naterial called		

END