

THE E-LEARN EXAMINATIONS BOARD



WELCOME TO PRIMARY SEVEN

2024

INTEGRATED SCIENCE GUIDE

Time Allowed: 2 hours 15 minutes



Index No.	EMIS No.					Personal No.		

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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 **12** printed pages altogether.
- Answer **all** questions. **All** working for both sections **A** and **B** must be shown 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**.
- Do not fill anything in the table indicated: **"For Examiners' use only"** and boxes inside the question paper.

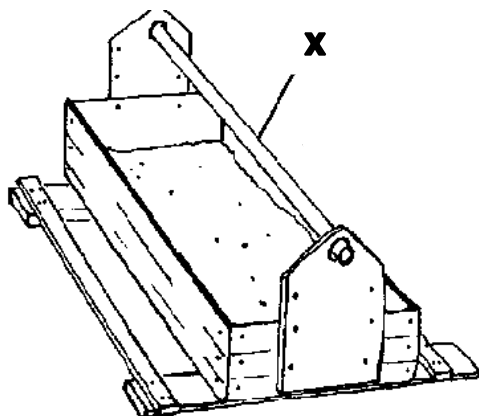
FOR EXAMINERS' USE ONLY		
Qn. No.	MARKS	EXR'S NO.
1 – 10		
11 – 20		
21 – 30		
31 – 40		
41 – 43		
44 – 46		
47 – 49		
50 – 52		
53 – 55		
TOTAL		

SECTION A: 40 MARKS

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

1. Name any one vulnerable group of people found in your community.
✓ Elderly people// invalids/convalescents// weaning babies.
✓ Pregnant women // breast feeding mothers.
2. Which advice would you give to a mother whose child is suffering from marasmus?
✓ I would advise the mother to feed her child on food rich in carbohydrates.
3. State the reason why people suffering from malaria develop anaemia.
✓ Plasmodia germ destroy red blood cells causing anaemia.
4. Apart from eating food, how useful are teeth to man?
✓ Teeth provide a good smile // teeth help in proper talking.
✓ Teeth keep the shape of mouth.

The diagram below shows an equipment used on a poultry farm. Use it to answer questions **5** and **6**.



5. How useful is the above equipment to a poultry farmer?
✓ For feeding poultry// for putting in poultry feeds for them to eat.
6. Write the importance of part marked **X** on the equipment.

✓ **It prevents birds from contaminating food.**

✓ **Prevents birds from defecating in mash.**

NOTE:

**Part X is a swivel
bar/rotating handle.**

7. State the method which can be used to separate paraffin from water.

✓ **Using a separating funnel // Decantation.**

8. Give a reason why farmers soak some crop seeds before sowing?

✓ **To soften the seed coat in order to ease germination**

✓ **To prevent seed dormancy.**

9. Mention one reason why animals with exoskeleton shed it seasonally.

✓ **To increase in body size // To grow.**

10. How are splints useful when giving First Aid to a casualty who has got a fracture on the leg?

✓ **Splints hold the broken bone in position**

11. Why does sand soil lose water faster than clay soil?

✓ **Sand soil has large air spaces (pore spaces) than clay soil**

12. Give the structural similarity between a fish and a tadpole..

✓ **Both have gills**

13. State one advantage of paddock grazing over other systems of grazing.

✓ **Paddock grazing ensures proper use of pasture than other systems.**

✓ **Parasites can be easily controlled in paddocks than other systems.**

14. Identify one secondary sex change that takes place in adolescent boys and girls.

✓ **Growth of pubic and armpit hair // change in voices.**

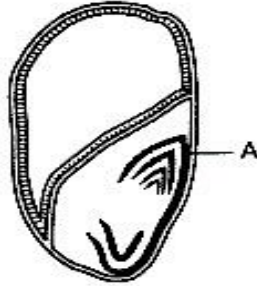
✓ **Sweat glands become more active.**

Turn Over

15. Why do earthworms die when oil is poured on them?

- ✓ **Oil suffocates the earth worms.**
- ✓ **Oil blocks breathing leading to suffocation.**

The diagram below shows a maize grain. Study and use it to answer questions **16** and **17**.



16. Name the part marked **A**.

- ✓ **Plumule**

17. State any one factor that may lead the above maize grain fail to germinate when all conditions are provided.

- ✓ **When the seed is broken**
- ✓ **When the seed is damaged by storage pests.**

18. Why should Saanen goats be given a block of salt to lick?

- ✓ **To provide them with mineral salts responsible for production of milk**

19. Give a reason why salivary amylase fails to work when food reaches stomach?

- ✓ **Due to the presence of acidic conditions in the stomach.**

20. State one advantage of covering food with banana leaves while cooking.

- ✓ **It conserves wood fuel.**

21. Write down one effect of heat gain or loss or matter.

- ✓ **Heat gain or loss causes change in the state of matter.**
- ✓ **Heat gain increases temperature of matter.**

22. What is the importance of washing hands while preparing **ORS**?

- ✓ **Washing hands prevents contamination of O.R.S.**

23. Besides making cosmetics, mention any one other industrial use of honey.

- ✓ **Honey is used for making cough mixture(syrup).**
- ✓ **Honey is used for making chocolate.**

24. Name the standard units in which mass is measured.

- ✓ **Kilograms.**

25. State one way physical exercises are useful in the growth of a human being.

- ✓ **Physical exercise promotes body flexibility.**
- ✓ **Physical exercise prevents obesity.**
- ✓ **Physical exercise improves on blood circulation.**
- ✓ **Physical exercise promotes proper functioning of the digestive system.**

26. Write any one characteristic that makes some flowers pollinated by wind.

- ✓ **The filaments are taller than the style // They have dull petals.**
- ✓ **They produce light pollen grains // They do not produce scent**

27. State any one of caring for tuber crops in the garden like sweet potato.

- ✓ **By weeding them // by spraying the with pesticides**

28. How useful is a school health committee important in our community?

- ✓ **Advising community members to take their children for immunization.**
- ✓ **Encouraging members to feed on a balanced diet.**

Turn Over

- ✓ **Promoting proper food hygiene // conducting health parades.**
- ✓ **Providing hand washing facilities.**

29. Why is not advisable to clean our ears using sharp objects?

- ✓ **Sharp objects may damage the eardrum**

30. Identify one feature used to classify birds in our environment.

- ✓ **The nature of their beaks and foot.**
- ✓ **The food they eat.**

31. State any one way in which filtration is useful in our daily life.

- ✓ **Filtration helps to obtain clean water from dirty water.**
- ✓ **Separating seeds from passion fruit juice // removing tea leaves from tea.**

32. Give one reason why there is no change between inhaled and exhaled nitrogen.

- ✓ **Nitrogen is not used by the body // There is no body process that needs nitrogen.**

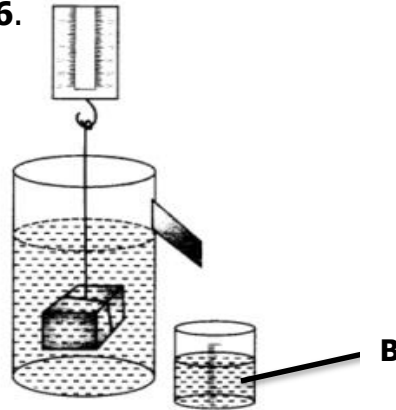
33. Mention any one way people can re-use plastics in our homes.

- ✓ **For fetching water // harvesting rain water // Used as flower vase /vessels.**
- ✓ **They can be used for storing cereals.**

34. State the reason why a house for cattle should have a slanting floor.

- ✓ **For easy flow of urine.**
- ✓ **To ease cleaning.**

The diagram below shows a way of finding the volume of an irregular object. Use it to answer the questions **35** and **36**.



35. Name the method used in finding the volume of the stone above.

✓ **Displacement method.**

36. How is container **B**, useful to the person carrying out the above experiment?

✓ **To measure the volume of displaced water.**

37. State the role of a larva stage in the development of a butterfly.

✗ **The larva stage helps in feeding. ~~REJECT Making-cocoon~~**

38. Mention one importance of photosynthesis to humans.

✓ **Humans get oxygen from photosynthesis**

39. State any one way of conserving energy resources got from fossil fuels.

✓ **Using alternative energy resources.**

✓ **Walking walkable distances instead of using cars.**

40. Why does blood in veins flow in one direction?

✓ **Veins have valves which prevent backflow of blood.**

Turn Over

SECTION B: 60MARKS

Questions **41** to **55** carry four marks each

41.a Give the meaning of the following types of changes in the environment:

- (i) Biological change: **These are changes which take place in living things.**
- (ii) Chemical change: **These are changes which are irreversible and form new substances.**

(b) What happens to the mass of ice when it melts?

✓ **The mass of ice remains constant (does not change)**

(c) Identify one example of biological changes in plants.

✓ **Flowering // ripening of fruits // germination // shedding of leaves.**

42.(a) Name the Immunisation site of BCG vaccine on body of babies.

✓ **Right upper arm.**

(b) At what age is measles vaccine administered to children?

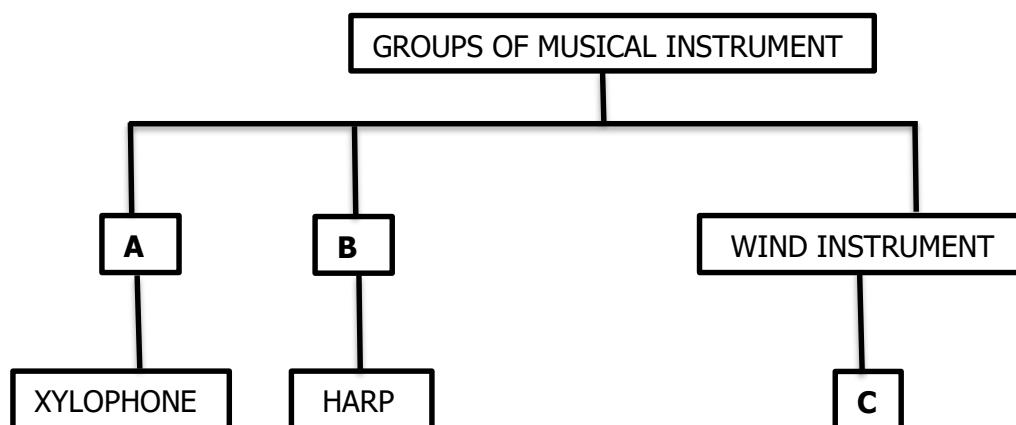
✓ **At nine months.**

(c) Mention any two reasons why mothers take their young babies for immunisation.

(i) **To boost babies' immunity**

(ii) **To prevent childhood immunisable killer diseases.**

43. The table below shows group of musical instruments. Use it to answer question **43**.



a) Name the groups of musical instruments marked **A** and **B**.

(i) **A - percussion musical instruments**

(ii) **B – String musical instruments**

(b) How can the pitch of sound produced by a harp in group **B** be varied?

✓ **By tightening strings // loosening strings.**

(c) Give any one example of instrument in **c**.

✓ **Whistle // flute // horn // trumpet // saxophone // pan pipes.**

44.(a) Mention any two drugs of dependency in our society.

(i) **Marijuana // jet fuel.**

(ii) **Miraa // Tobacco.**

(b) Give one way drugs are misused.

✓ **Through taking underdose // through taking overdose**

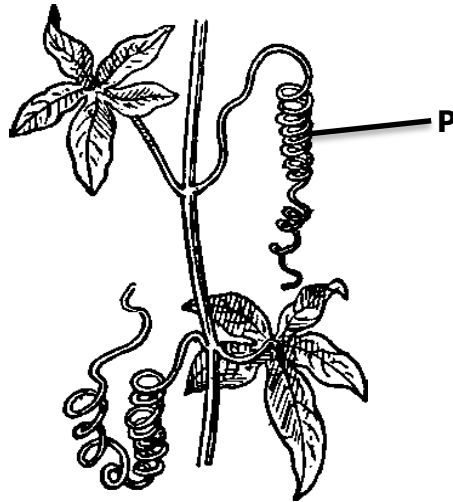
(c) State any one condition under which drugs should be stored.

✓ **Drugs are stored in a cool dry place.**

✓ **A place free from direct sunlight.**

Turn Over

45. The diagram below is of part of a climbing plant. Use it to answer questions that follow.



(a) Name part marked **P**.

✓ **Tendrils.**

(b) Why do plants with such structures climb other plants?

✓ **To get extra support // To get more sunlight.**

(c) Write down any two other methods plant use to climb others.

(i) **Using hooks.**

(ii) **Twining // clasping**

46. a Besides meat, name any other two products we get from rabbits.

(i) **Fur**

(ii) **Manure (Rabbit droppings)**

(b) What is meant by the term a doe?

✓ **A doe is a mature female rabbit.**

(c) State the role of a wire mesh on a hutch.

✓ **A wire mesh provide proper ventilation in the hutch.**

✓ **A wire mesh allow free air circulation in the hutch.**

✓ **A wire mesh allows light into the house.**

47.(a) Name the component of soil that helps it absorb heat from the sun.

✓ **Humus.**

(b) Apart from improving soil fertility, give any other reason of putting manure in the garden.

✓ **To improve soil structure.**

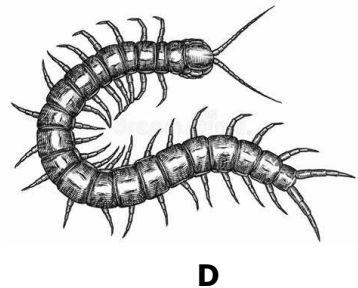
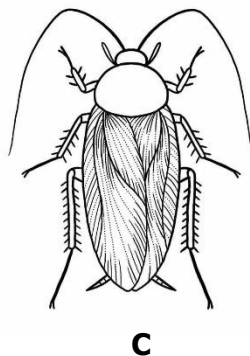
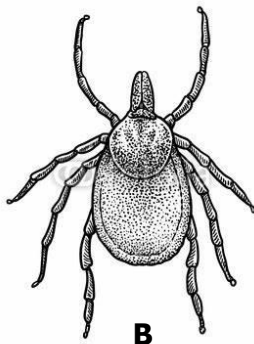
✓ **To improve water retention by the soil.**

(c) Write down any one importance of the following types of soils to man:

(i)Clay soil: **for making pots.**

(ii) Sand soil: **for making glasses.**

48. The diagrams below show examples of some invertebrates. Study it carefully and use it to answer questions that follow.



(a) Name the animals labelled C and D.

C- cockroach.

D- centipede.

b) Under which group of invertebrates does animal **B** belong?

✓ **Arthropods.**

c) Why are the animals above grouped under invertebrates?

✓ **The above animals have no backbones.**

✓ **The above animals have exo skeleton.**

Turn Over

✓ **The above animals have jointed legs.**

49. Kapiito mixed sugar and water in a cup and stirred them until they formed a uniform mixture.

(a) What happened to the sugar after stirring?

✓ **The sugar dissolved in water.**

(b) Give one other substance which can be used in the above experiment instead of sugar.

✓ **Salt // Glucose powder.**

(c) What term is given to the uniform mixture formed?

✓ **Solution.**

(d) Why is water called a universal solvent?

✓ **Water dissolves most of the solutes.**

50. (a) Give a reason why a VIP latrine said to be:

(i) improved: **it does not smell badly.**

(ii) ventilated: **it has a ventpipe.**

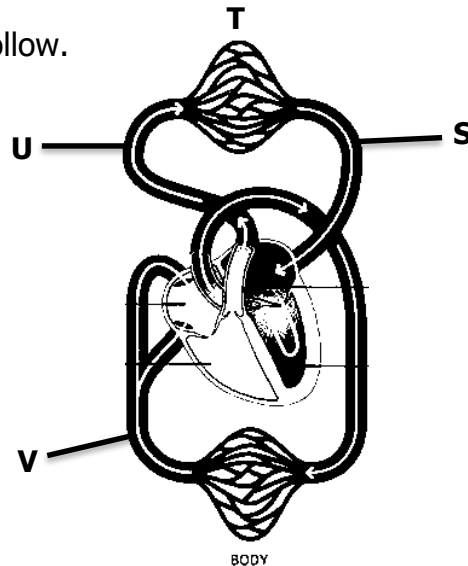
(b) Why is it recommended to build a pit latrine 30 metres from a water source?

✓ **To prevent water contamination.**

(c) What is the importance of smoking pit latrines using dry banana fibres?

✓ **smoking pit latrines reduces a bad smell.**

51. The diagram below shows blood circulation in human being. Study it carefully and answer the questions that follow.



(a) Name the organ marked with letter **T**.

✓ **Lungs.**

(b) Which blood vessel is marked with letter **S**?

✓ **Pulmonary vein.**

(c) State the similarity between blood vessel **U** and **V**.

✓ **Both U and V transport deoxygenated blood.**

(d) Why does blood vessel **S** bring blood back to the heart?

✓ **To be pumped to all parts of the body.**

52. (a) In which season do crop farmers harvest cereals like maize?

✓ **Dry season.**

(b) State any two effects of clouds in our environment.

✓ **clouds cool temperature of the environment.**

✓ **Clouds reduce on the rate of transpiration // clouds reduce evaporation.**

✓ **Clouds reduce heat and light intensity // clouds increase humidity.**

Turn Over

(c) Why is advisable to transplant seedlings in the evening?

✓ **To prevent wilting of seedlings**

53.(a) Why is water regarded as a renewable resource?

✓ **Water is replaced naturally when used up.**

(b) State any one way how the following products are harvested from animals.

(i)meat: **through skinning animals. (slaughtering)**

(ii)milk: **through milking.**

(c) Which animal fibre is got by shearing?

✓ **Wool.**

54.The diagram below shows a garden tool used by man. Use it to answer questions that follow.



(a) Name the garden tool shown above.

✓ **An axe.**

(b) Apart from cutting big trees, how useful is the above garden tool to man?

✓ **For splitting firewood.**

(c) State any two ways of caring for garden tools used by farmers.

(i) **By painting garden tools // sharpening cutting tools.**

(ii) **By cleaning them after use // keeping tools in a cool dry place.**

55. Match correctly the vectors in **A** with the respective germs they carry in **B**.

A: Vectors

Itch mite

Rat flea

Lice

Cockroach

B: Germs

Rickettsia

Salmonella typhi

Yersinia pestis

Sarcoptes scabiei

(i) Itch mite **Sarcoptes**

(ii) Rat flea **Yersinia pestis**

(iii) Lice **Rickettsia**.


(iv) Cockroach **Salmonella typhi**.

END



E-LEARN EXAMINATIONS BOARD 2024



	ACTIVITY	CLASS	READY BY	ORDERS CLOSED	DELIVERY	COST PER PUPIL
		TERM ONE EXAMS				
1	B.O.T Welcome to P.7	P.7	15 th January	31 st January	2 nd -11 th February	3,000/= Hard cpy 20,000/= Soft cpy
2	Mid-term quality check	P.7, P.6	10 th march	29 th March	30 th -31 st March	3,000/= Hard cpy 20,000/= Soft cpy
3	End of term One	P.4 – P.7	15 th April	19 th April	20 th -21 st April	3,000/= Hard cpy 20,000/= Soft cpy
		OTHER SERVICES OFFERED				
4	Schemes of work and lesson Notes(customized)	20,000/= per class P1 to P7				
5	Printing services	50/= Per Page				
6	Graphics /designing	From 10,000/=				
7	Websites	From 500,000/=				
		MUSIC DANCE AND DRAMA				
8	School Anthems	A written anthem costs 200,000/= a recorded anthem and track is for 400,000/=				
9	School songs	It costs 500,000/= to compose and record a school song(negotiable)				
10	Drama training	We train music and drama at schools. Price in negotiable				
11	Dance	We train modern and traditional/cultural dance				
12	Video shooting	Video shooting costs start from 500,000/=				
14	Video and audio adverts	We create video adverts to run on TV and Audio for radios and personal use.				