

# THE E-LEARN EXAMINATIONS BOARD

MID TERM 1 PROGRESS CHECK

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:**

1. Do not forget to write your **school** or **district name** on the paper.
2. 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.
3. 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**.
6. 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                 |       |           |
| <b>TOTAL</b>            |       |           |

## SECTION A: 40 MARKS

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

1. Name the gas that accumulates in the atmosphere as plants try to make their own food.

✓ **Oxygen.**

2. Mention any **one** non-infectious respiratory disease.

✓ **Lung cancer.**

3. Give **one** reason why a person who has taken poison be given plenty of cold milk to drink.

✓ **To dilute poison.**

4. How are gases similar to liquids as states of matter.

✓ **Both liquids and gases have no definite shapes.**

✓ **Heat travels through liquids and gases by convection.**

5. How is a switch important in electric circuit?

✓ **A switch breaks or completes the circuit at one's will.**

6. Apart from wet salting, state any **one** other method used to preserve hides and skins.

✓ **Suspension drying**

7. How is the tooth drawn below adapted to its function?

✓ **Its chisel shaped for easy cutting of food.**



8. Identify the type of weather that can lead to expansion of railway lines.

✓ **Sunny weather**

9. Name any **one** disease that affects both poultry and sheep.

✓ **Pneumonia**

10. How can salt be obtained from salt solution.

✓ **Evaporation to dryness // heating to dryness.**

11. Give **one** example of arachnids.

✓ **A spider // tick // mite**

12. Mention the skeletal and muscular system disease that can be controlled by basking in the sunshine.

✓ **Rickets.** ***Explanation:*** **Basking helps the skin to manufacture vitamin D which prevents rickets.**

13. State **one** activity done by P.7 children to promote oral hygiene.

✓ **Regular brushing of teeth // rinsing the mouth**

✓ **dental flossing**

14. Calculate the density of an object whose mass is 15g and volume 5cc.

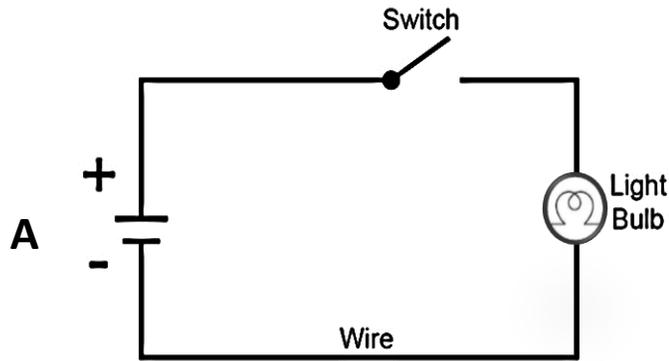
$$\text{Density} = \frac{\text{mass}}{\text{Volume}}$$

$$\frac{15\text{g}}{5\text{cc}}$$

$$\text{Density} = 3\text{g/cc}$$

15. The diagram below shows an electric circuit. Use it to answer questions

**16 and 17.**



16. Name the form of energy possessed by component **A**.
- ✓ **Chemical energy.**
17. What energy changes take place at **A**.
- ✓ **Chemical energy changes to electrical energy when the circuit is complete**
18. Give **one** way children contribute to environmental degradation.
- ✓ **Through burning bush.**
  - ✓ **Improper disposal of plastic scraps.**
  - ✓ **Improper disposal polythene papers**
19. Besides miscarriage, give any **one** other effect of smoking to an expectant mother.
- ✓ **Smoking leads to still birth.**
  - ✓ **Smoking leads to premature birth.**
  - ✓ **Smoking leads to birth of underweight babies.**
20. Why are pupils encouraged to have a good body posture?
- ✓ **Good body posture prevents body aches at older age.**

✓ **Good body posture prevents bone deformation.**

✓ **Good body posture prevents indigestion of food.**

21. Name the part of the spider where the legs are attached.

✓ **Cephalothorax**

22. Which advice would you give for a child with indigestion?

✓ **Chewing food properly // Avoid eating too much food.**

✓ **Avoid eating hurriedly // Eating well cooked food**

✓ **Avoid eating oily foods**

23. Give **one** factor considered before sorting clothes for cleaning.

✓ **Dirt intensity.**

✓ **Colour of the cloth // Nature of the fabric**

24. Why do most farmers prefer keeping local breeds to exotic breeds?

✓ **Local breeds are more resistant to diseases than exotic breeds.**

✓ **Local breeds withstand harsh weather conditions than exotic breeds.**

25. What do we call the mixture of gases in motion?

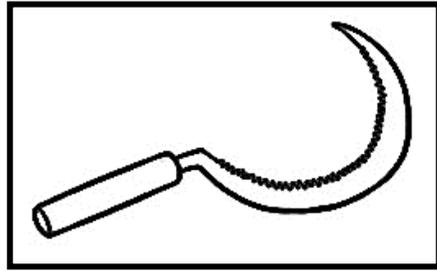
✓ **Wind**

26. Mention the property of a magnet used by a meteorologist at a weather station.

✓ **Magnetism can pass through non magnetic materials.**

**Explanation: this property is used to reset the six's thermometer**

27. In the space below, draw a tool used for harvesting cereals like rice.



28. Give **one** activity done by farmers to reduce the rate of transpiration while planting banana suckers.

✓ **Cutting leaves of banana suckers.**

29. Kerian picked a bottle of cold water from the refrigerator. After 2 minutes, he saw droplets of water on the surface of the bottle. Give a reason for that observation.

✓ **Warm air in the surrounding gets into contact with the cold surface and condenses into water droplets**

✓ **The air around the bottle condensed to form water droplets.**

30. Give **one** way people can tell the direction of wind without using weather instruments.

✓ **By using dust // using the windsock.**

31. What is meant by debeaking as used in poultry management.

✓ **Debeaking is the shortening of the upper part of the beak.**

32. How do birds like ducks and geese overcome the coldness in water.

✓ **Their skin has many oil glands that produce oil which keeps them waterproof.**

33. State the normal body temperature in human beings.

✓ **37° C / 98.6° F**

34. Ssentenza drowned in water. He was given first aid immediately by Katrine.

Why is this statement scientifically wrong?

✓ **A drowned person is already dead.**

35. Give **one** example of a non-biodegradable waste in the environment.

✓ **Polythenes // plastics// waste oils //metals**

36. State any **one** structural difference between a vein and an artery.

✓ **A vein has a wider lumen while artery has a narrow lumen.**

✓ **A vein has valves while an artery has no valves**

37. Give any **one** example of a causative agent.

✓ **Virus // bacteria // protozoa // fungi**

38. How does freezing using ice cubes help in the preservation of fish.

✓ **Freezing makes bacteria dormant.**

✓ **Freezing makes bacteria inactive.**

39. Mention the dangerous substance found in tobacco that causes addiction.

✓ **Nicotine**

40. Give a reason why Rebecca a P.6 pupil will fail to find the volume of a cassava using the formula  $L \times W \times H$ .

✓ **Cassava has an indefinite shape.**

## **SECTION B: 60 MARKS**

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

41. (a) What is mulching?

✓ **Is the covering of top soil with dry plant materials.**

(b) Give **one** material used in mulching the garden.

✓ **Coffee husks // dry grass // dry banana leaves**

(c) How does mulching of the garden help to control soil erosion?

✓ **Mulches reduce the speed of fast flowing water.**

(d) Why are farmers not advised to use wet plant materials for mulching?

✓ **Wet plant materials can grow into weeds.**

42. (a) Write P.H.C in full.

✓ **Primary Health Care.**

(b) Name the element of P.H.C promoted by the following:

(i) Cleaning latrines.

✓ **Water and sanitation.**

(ii) Feeding on a balanced diet.

✓ **Food and nutrition.**

(c) Write **one** principle of P.H.C.

✓ **Full participation of community members.**

- ✓ **Prevention is better than cure.**
- ✓ **PHC activities should be affordable.**
- ✓ **PHC should be accessible.**
- ✓ **Total health for all.**

43. The list below shows animals. Use it to answer the questions that follow:

| <b>A</b>       | <b>B</b>    | <b>C</b>          | <b>D</b>         |
|----------------|-------------|-------------------|------------------|
| <b>TILAPIA</b> | <b>FROG</b> | <b>PUFF ADDER</b> | <b>CROCODILE</b> |

(a) Apart from laying eggs, give **one** similarity between animals **A** and **B** in the way they reproduce

- ✓ **Both animal A and B undergo external fertilization.**

(b) Which of the animals above moves by slithering?

- ✓ **Adder**

(c) To which group of vertebrates does animal **D** belong?

- ✓ **Reptiles.**

(d) Name the common habitat for animals **A, B** and **D**

- ✓ **Water body.**

44. (a) Which device transforms the kinetic energy of flowing water to electricity?

- ✓ **Generator**

(b) Mention the type of electricity obtained in that way.

✓ **Current electricity.**

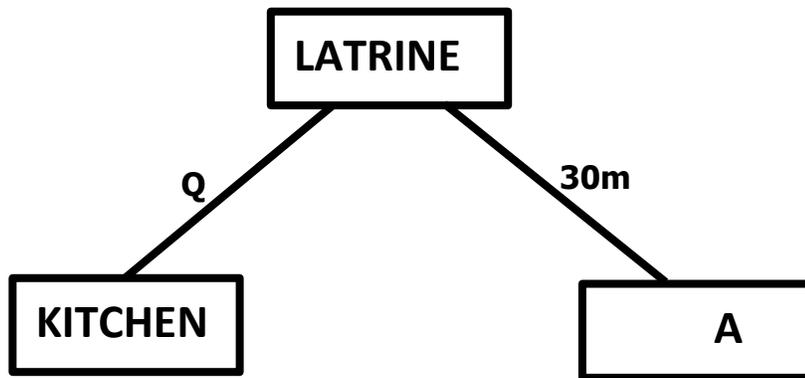
(c) How does this kind of electricity reach a customer in Gulu?

✓ **Through transmission lines**

(e) State the major cause of a short circuit.

✓ **When bare wires carrying current get into contact.**

45. Construction of a latrine is one way of maintaining or improving sanitation at school. Use the diagram below to answer the questions that follow.



(a) Name any **one** item that is constructed at point **A**.

✓ **Water source.**

(b) What is the recommended distance from the kitchen to the latrine?

✓ **10 metres**

(c) Give **two** diseases that may break out due to the absence of a latrine in a school community.

✓ **Cholera // Diarrhoea**

✓ **Typhoid // Dysentery**

46. (a) Name any one example of a modern bee hive.

✓ **Top bar hive // Box hive // Tin hive.**

(b) State the role played by a queen bee in the bee hive.

✓ **A queen bee lays fertilized eggs.**

(d) Give **one** enemy of bees.

✓ **Honey badgers // safari ants // wax moth // termites**

✓ **Hive beetles.**

(e) What is the importance of smoke during honeyharvesting?

✓ **Smoke calms down bees during harvesting.**

✓ **Smoke makes bees dormant.**

47. (a) Give the meaning of the term **Magnet.**

✓ **Magnet is a material which attracts other magnetic materials.**

(b) Name the metal which makes the strongest magnet.

✓ **Iron**

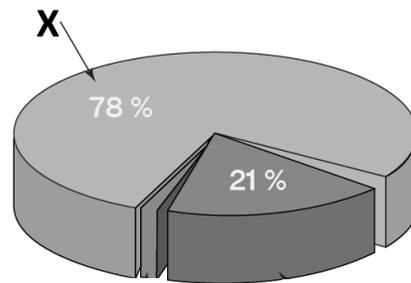
(c) Write the property of a magnet which may enable you to find direction.

✓ **A freely suspended magnet rests in North – South direction.**

(d) How is a magnet useful to a doctor?

✓ **Doctors use magnets to remove foreign bodies from peoples eyes**

48. The pie chart below shows some of the components of air in the atmosphere. Use it to answer the questions that follow.



(a) Name the gas with the composition of

✓ **Oxygen**

(b) Why is gas marked **X** used in artificial inseminators?

✓ **Nitrogen gas X has low temperature.**

(c) Mention the process in plants which uses carbon dioxide.

✓ **Photosynthesis**

(d) State **one** condition necessary for the process named in (c) above to take place.

✓ **Presence of sunlight // presence of chlorophyll.**

49. (a) What is a resource?

✓ **Is anything that can satisfy man's need.**

(b) Give the reason why plants are called living renewable resources.

✓ **Plants have life and can be replaced naturally reduced in nature.**

(c) Apart from recycling, give any **one** way of conserving nonrenewable resources.

✓ **By using renewable resources like solar energy, biogas.**

✓ **Harvesting and using them sparingly.**

(d) How does bush burning contribute to the removal of top soil?

✓ **Bush burning leaves the soil bare exposing it to agents of soil erosion.**

50. (a) Give the difference between **heat** and **temperature**.

✓ **Heat is a form of matter that cause rise in temperature while temperature is the degree of hotness or coldness of an object or a place.**

(b) Apart from Celsius scale, mention the other scale used on a thermometer.

✓ **Fahrenheit scale.**

(c) Convert  $0^{\circ}$  to  $^{\circ}\text{F}$ .

$$^{\circ}\text{F} (^{\circ}\text{C} \times \frac{9}{5}) + 32$$

$$(0 \times \frac{9}{5}) + 32$$

$$0 + 32$$

$$\underline{0^{\circ}\text{C} = 32^{\circ}\text{F}}$$

METHOD 2

$$9\text{C} + 160^{\circ} = 5\text{F}$$

$$9 \times 0 + 160^{\circ} = 5\text{F}$$

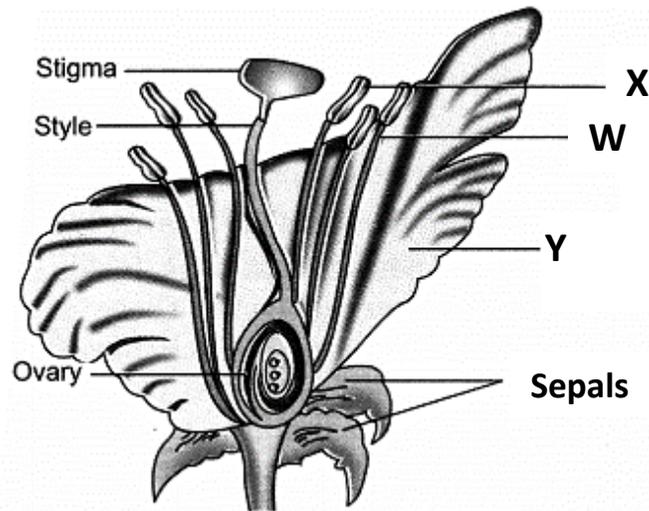
$$0 + 160 = 5\text{F}$$

$$\underline{160}^{32} = \underline{5}^1$$

$$5_1 = 5_1$$

$$\underline{0^{\circ}\text{C} = 32^{\circ}\text{F}}$$

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



- (a) Name the parts marked

**X - Anthers      W- filament**

- (b) Why is part marked **Y** brightly coloured.

✓ **To attract insect pollinators.**

- (c) Give a reason why self-pollination is likely to take place on a plant with such a flower.

✓ **The female and male parts of a flower are found in the same plant**

52. (a) What is a joint?

✓ **A joint is a point where two or more bones meet in the body.**

- ✓ (b) State the substance in the human body that helps to reduce friction around the joints.

✓ **Synovial fluid // Cartilage**

(d) Write **two** examples of antagonistic muscles.

- ✓ **Biceps //triceps of the upper arm.**
- ✓ **Quadriceps and hamstrings.**
- ✓ **Calf muscles // pectoral muscle of the chest.**

53. (a) How is sound written on a piece of paper reproduced?

- ✓ **By singing solfas.**

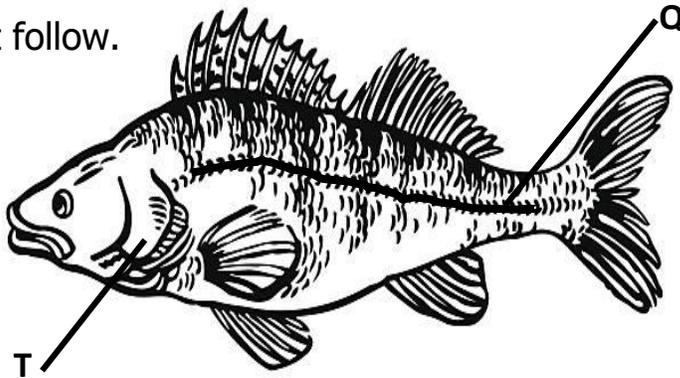
(b) Mention **one** way of storing sound.

- ✓ **By recording**
- ✓ **By writing notations.**

(c) Name **two** devices used to reproduce sound.

- ✓ **Digital Video Discs(DVD) // Record player**
- ✓ **Video disc players // mobile phones**

The diagram below is of an aquatic animal. Use it to answer the questions that follow.



(a) Name the part labelled **Q**

- ✓ **Lateral line**

(b) State the function of the part marked **T**.

✓ **Covers the gills.**

(a) Name the deficiency disease controlled by feeding on the above aquatic animal.

✓ **Kwashiorkor**

(b) How does the above aquatic animal help in the control of malaria?

✓ **The above aquatic animal feeds on the larva stage of mosquito.**

54. Re-arrange the following sentences to describe the steps involved in rain formation.

(a) Nimbus clouds become heavy and fall as rain.

(b) Evaporation and transpiration take place.

(c) Water vapour raises up and condenses to form nimbus clouds.

(d) The sun heats water in lakes and the vegetation.

### **CORRECT ORDER**

✓ **The sun heats water in lakes and the vegetation.**

✓ **Evaporation and transpiration take place.**

✓ **Water vapour raises up and condenses to form nimbus clouds.**

✓ **Nimbus clouds become heavy and fall as rain.**

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# E-LEARN EXAMINATIONS BOARD



Makindye, Kampala Uganda

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The E-Learn Examinations Board emerged during the times of the COVID-19 pandemic, a period marked by widespread disruptions to traditional education systems worldwide.

Recognizing the urgent need for innovative solutions to facilitate remote learning, a group of visionary educators and technologists came together to establish the E-Learn Examinations Board.

In response to the challenges faced by educators and learners alike during the pandemic, the board swiftly pivoted to provide comprehensive learning materials tailored to the unique demands of remote education. Understanding that teachers needed support in delivering lessons online, the board developed a range of educational resources and materials, covering various subjects and grade levels. These resources were made freely available to both teachers and learners who had downloaded the E-Learn App.

**The E-Learn app** was a user-friendly platform designed to streamline the delivery of teaching materials and resources. The app empowered teachers to access a wealth of educational content, including lesson notes, daily and weekly work, instructional videos, and interactive learning activities, all accessible from the convenience of their devices. This innovative tool not only facilitated remote teaching but also fostered collaboration and knowledge sharing among educators.

As the E-Learn app gained popularity among teachers, the board witnessed a remarkable surge in online engagement and participation. The board continued to invest in the expansion and enhancement of its online offerings. This included the development of interactive assessment tools, virtual classrooms, and personalized learning pathways, all aimed at maximizing children's engagement and learning outcomes in the online environment.

Driven by a commitment to excellence and innovation, the E-Learn Examinations Board has emerged as a leader in the field of online education and assessment. Its pioneering efforts bridged the gap created by the pandemic and laid the groundwork for a more inclusive, flexible, and resilient education system for the future.

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