

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.		

COMPILED: **TR. MWAYAFU MEDDIE** 0771428425 / 0700260752
TR. SSEBUGUZI KERIAN 0774939354 / 0701444445
TR. TUMWESIGE YUSUF 0773049747 / 0742022160
TR. MULINDWA HAKIM 0701564376

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 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**

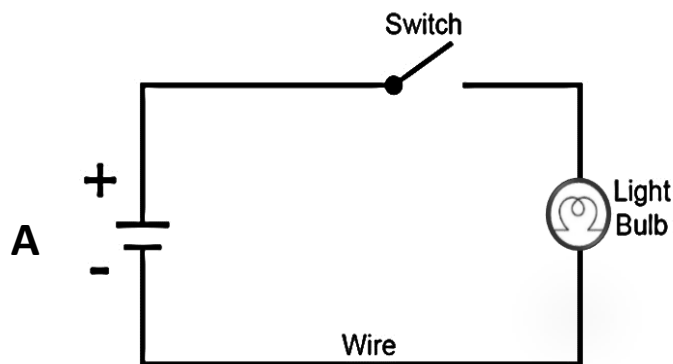
14. Calculate the density of an object whose mass is 15g and volume 5cc.

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

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

Density = 3g/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**.
 ✓ **Electrical 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?

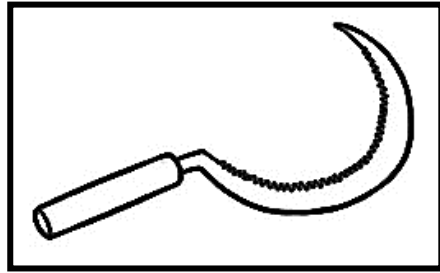
✓ **Wind**

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. Ssenteza 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:

A	B	C	D
TILAPIA	FROG	PUFF ADDER	CROCODILE

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

- ✓ **Both animal A and animal B reproduce by laying eggs.**

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

- ✓ **Adder**

(c) To which group of vertebrates do animals **A**, **B** and **D** belong?

- ✓ **Cold blooded vertebrates (poikilothermic)**

(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.**

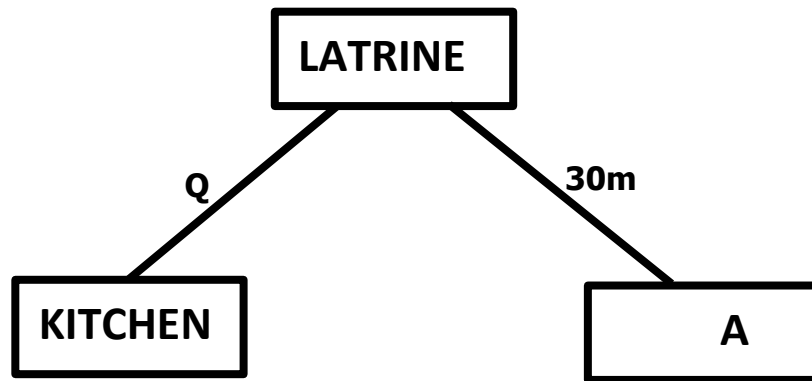
(c) How does this kind of electricity reach a customer in Gulu?

✓ **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**

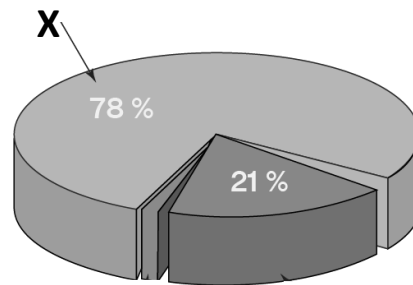
(c) Write the property of a magnet which may enable you to find direction.

✓ **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°C 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

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

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

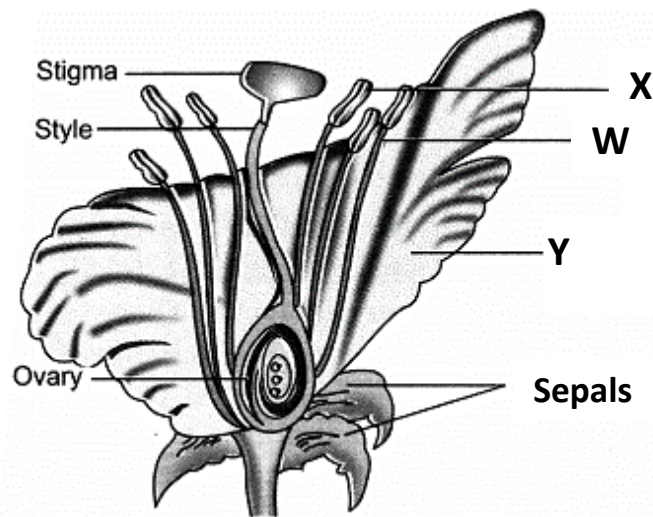
$$0 + 160 = 5\text{F}$$

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

$$5_1 = 5_1$$

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

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**

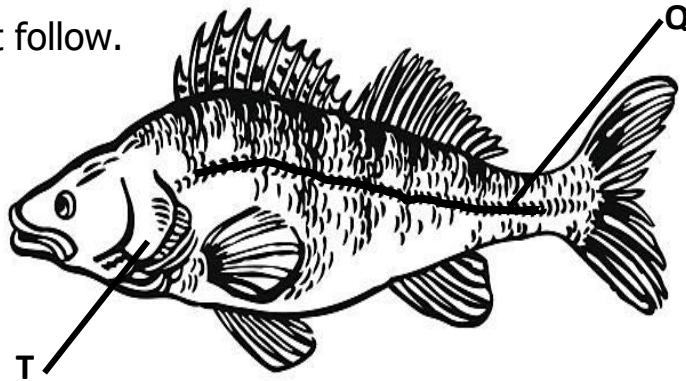
✓ **By writing notations.**

(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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	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.				