

# E-LEARN UGANDA

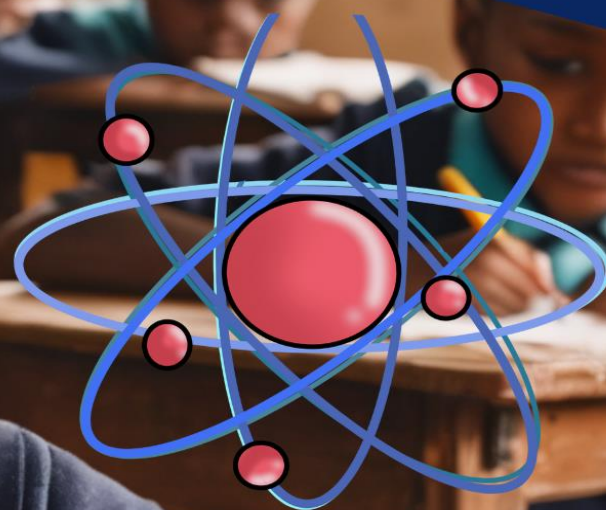
*"KNOWLEDGE FOR ALL"*

## PRE-PLE GUIDE



## SCIENCE

**2023**



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KAMPALA, UGANDA

## SECTION A: 40 MARKS

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

1. Name the teeth used for tearing meat.  
✓ **Canine teeth.**
2. Why do wading birds have long legs?  
✓ **Long thin legs help wading birds to move in deeper water.**  
✓ **Long thin legs enable wading birds to walk through water and muddy places**
3. Name the strongest bone in the human body.  
✓ **Femur // thigh bone**
4. How is a chameleon important in our environment?  
✓ **Chameleon feeds on disease vectors e.g. mosquitos.**
5. Name **one** example of an exotic breed of rabbits.  
✓ **Rex rabbit // Newzealand white // Californian rabbit.**  
✓ **Angora rabbit // Chinchilla rabbit // Earlop rabbit**

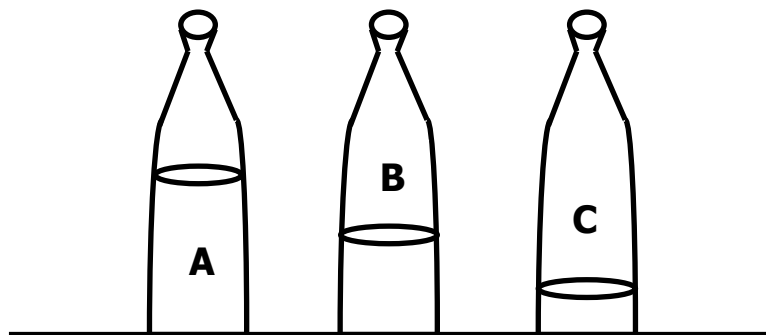
The diagram below is of a component of blood. Use it to answer questions **6** and **7**.



6. Identify the component of blood above.  
✓ **Red blood cell**
7. How is the above component useful in the body?  
✓ **The above component transports oxygen in the body**
8. Give the meaning of the term sprain.  
✓ **A sprain is a torn ligament // A sprain is over stretching and tearing of the ligament.**

9. How does heat travel through gases?  
✓ **Through convection.**
10. Why does smoke always move upwards through a chimney?  
✓ **Smoke is less dense than wind.**
11. Name **one** form of energy which can cause change of state of matter.  
✓ **Heat energy.**
12. Besides wool, State any other animal fibre.  
✓ **Fur // silk // hide // skin**
13. Briefly give the meaning of seed dispersal.  
✓ **Seed dispersal is scattering of seeds away from the mother plant over a wide area.**
14. How are scratching birds important in our gardens?  
✓ **Scratching birds feed on some crop pests.**

The diagram shows three bottles **A**, **B** and **C** of the same size and material with different amount of water. Use it to answer the question **15**.



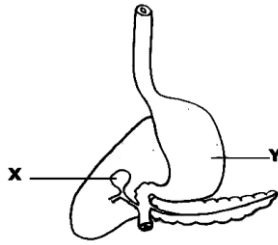
15. Which bottle will produce the highest pitch of sound when air is blown into them?  
✓ **Bottle A produces highest pitch of sound.**
16. How can you tell that a child was immunized against tuberculosis without reading the immunization card?  
✓ **Looking at the scar on the right upper arm.**

17. Why are ventilators useful on a house?  
✓ **Ventilation let out stale air // ventilators allow out warm air.**
18. What causes scabies?  
✓ **Itch mites**
19. Give **one** example of a voluntary muscle in the human body.  
✓ **Biceps and triceps // ham string and quadriceps.**  
✓ **Calf muscles // pectoral muscles // gluteus muscles of the buttock.**
20. What is the use of saliva in the digestive system?  
✓ **Saliva lubricates food for easy swallowing.**  
✓ **Saliva cools food in the mouth.**
21. What name is given to the three bones found in the middle ear?  
✓ **Ossicles**
22. How is the function of stomata similar to that of gills in a fish?  
✓ **Both stomata and gills are used for breathing.**  
✓ **Both stomata and gills are breathing organs.**
23. How useful is chlorophyll in plants?  
✓ **Chlorophyll traps sunlight during photosynthesis.**
24. What is a magnet?  
✓ **A magnet is a material which attracts other magnetic materials.**  
✓ **A magnet is a material which has ability to attract other magnetic materials.**
25. Name the element of PHC promoted by carrying out Vasectomy.  
✓ **Vasectomy ■ ■ ■ ➡ Family planning and child spacing**
26. Why do people plant grass in the compound?  
✓ **To control soil erosion.**

27. How can a farmer control weaverbirds from his maize garden?

✓ **By putting scare crows in the maize garden.**

The diagram below is of a part of digestive system. Use it to answer question **28** and **29**.



28. Name the part marked **X**.

✓ **Gall bladder..**

29. Name any **one** digestive juice produced in the part marked **Y**.

✓ **Gastric juice.**

30. What is puberty?

✓ **Puberty is a stage of sexual maturity in an individual.**

✓ **Puberty is a period during adolescence when a person becomes sexually mature.**

31. How can one know that he/she has HIV?

✓ **Through HIV blood testing.**

32. Give **one** way of avoiding accidents in the kitchen.

✓ **Cooking from a raised places.**

✓ **Using insulators when carrying hot saucepans.**

33. Which organ does a housefly use for smelling?

✓ **Feelers/antennae.**

34. Give **one** example of a reptile.

✓ **Snakes // lizards // alligators // crocodiles // turtles // tortoise // chameleone.**

35. How does a vacuum flask keep hot liquids hot and cold liquids cold?

✓ **A vacuum flask has a cork which prevents loss of heat by conduction.**

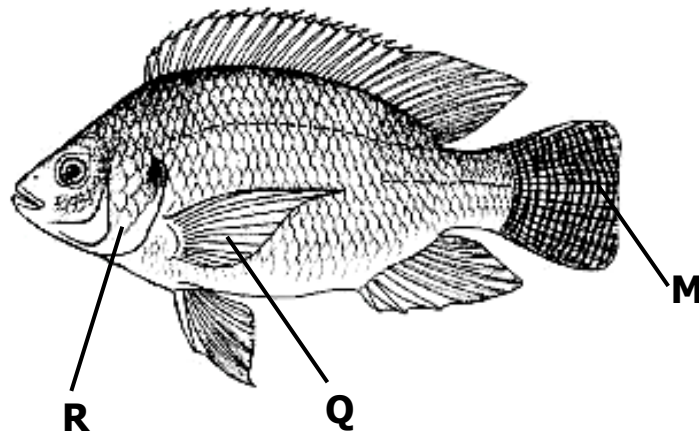
- ✓ **A vacuum flask has a shiny silvered wall which prevents heat loss or gain by conduction.**
- 36. Name **one** raw material used by plants to make starch.
  - ✓ **Carbon dioxide // water.**
- 37. Give any **one** example of antisocial behaviour in our communities.
  - ✓ **Robbery // murder // theft/stealing // arson // disobedience to authority.**
- 38. What is the best method of harvesting wood meant for timber?
  - ✓ **Coppicing.**
- 39. State the importance of the vaginal fluid produced during sexual intercourse.
  - ✓ **Prevents friction during sexual intercourse.**
- 40. What are secondary consumers in food chain?
  - ✓ **Secondary consumers are animals which feed on primary consumers e.g. lion // birds of prey.**

### **SECTION B: 60 MARKS**

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

- 41. (a) How can a person acquire artificial immunity?
  - ✓ **Through immunisation.**
- (b) Write BCG in full.
  - ✓ **Bacillus Calmette Guerin.**
- (c) Mention any **two** types of vaccines.
  - ✓ **Toxoids // killed vaccine // attenuated vaccine.**
- 42. The diagram below is of a fish. Use it to answer the questions that follow.





(a) Name the part marked **Q**.

✓ **Pectoral fin**

(b) What is the function of the part marked **R**?

✓ **Part R protects the gills from external damage.**

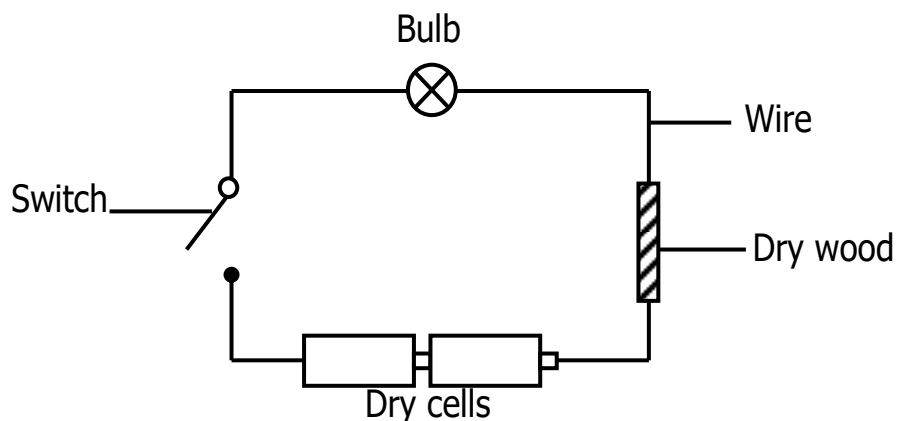
✓ **Opens to allow water to flow out when the fish is breathing**

(c) Why does a fish die immediately when removed from water?

✓ **Lack of dissolved oxygen on land.**

(d) By use of letter **M**, mark the part that enables forward movement.**DONE**

43. The diagram, below shows a simple electric circuit. Use it to answer the questions that follow.



- (a) Explain what will happen to the bulb when the switch is closed.
- ✓ **Bulb will not give out light.**
- (b) Give a reason to support your answer above.
- ✓ **Dry wood does not allow electricity to pass through it.**
- (b) How much electric pressure will be produced by the dry cells?
- ✓ **1 dry cell = 1.5V**
  - ✓ **2 dry cells = (1.5x 2)Volts = 3.0 Volts**
- (d) What energy change takes place in the bulb when a circuit is complete?
- ✓ **Electric energy changes to heat to light energy.**

44. (a) What is an echo?
- ✓ **An echo is a reflected sound.**
- (b) How is echo useful to bats?
- ✓ **Echo enables a bat to locate its prey at night.**
  - ✓ **A bat uses echo to dodge obstacles.**
- (c) How is echo prevented in cinema halls?
- ✓ **Echoes can be prevented by covering the wall with thick curtains.**
  - ✓ **By covering the floor with thick carpets.**
- (d) Name **one** device on which sound can be stored.
- ✓ **Flash discs // memory cards // compact disc // cassette tapes // computer diskettes/floppy // Digital audio tapes**
45. (a) Give **one** advantage of keeping rabbits.
- ✓ **Rabbits grow faster // rabbits require a small space for keeping them .**
  - ✓ **Rabbits multiply faster**
  - ✓ **Rabbits produce soft high quality meat**



(b) What is the gestation period of rabbits?

✓ **30 days.**

(c) State **two** qualities of a good hutch.

✓ **A good hutch should be well ventilated.**

**A good hutch should have a strong roof.**

✓ **A good hutch should be raised above the ground.**

✓ **A good hutch should be clean and dry.**

46. Write briefly about the following terms as used in electricity:

(a) Electric circuit

✓ **Electric circuit is a complete path for the flow of electric current.**

✓ **Electric circuit is path through which an electric current flows**

(b) Switch

✓ **A switch breaks or completes the circuit at ones will.**

(c) Conductors

✓ **Conductors are materials that allows electricity to pass through them.**

(d) Insulators

✓ **Insulators are materials which do not allow electricity to pass through them.**

47. (a) State any **two** reasons why you should not leave your home bushy.

✓ **Bushy homes are hiding places for vectors e.g. mosquitoes.**

✓ **Bushy homes hide dangerous animals like snakes**

(b) Besides slashing, suggest any other **two** ways you would promote cleanliness at home.

✓ **Digging a rubbish pit // putting a dustbin.**

✓ **Building pit latrines/toilets**

48. (a) What is soil exhaustion?

✓ **Soil exhaustion is the loss of soil fertility.**

✓ **Soil exhaustion is when soil loses its fertility.**

(b) Write down any **two** causes of soil exhaustion.

✓ **Deforestation // monocropping // bush burning.**

✓ **Excessive use of artificial fertilizers // over grazing.**

✓ **Over cultivation //soil erosion //leaching.**

(c) State any **one** way of controlling soil exhaustion.

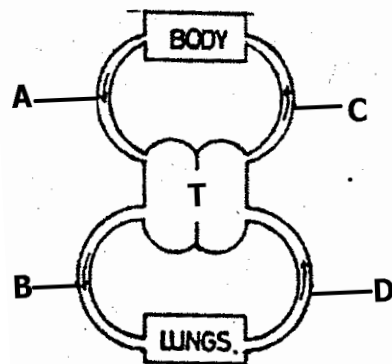
✓ **By mulching // practicing crop rotation.**

✓ **Practicing bush fallowing // using artificial fertilizers**

✓ **Practicing agroforestry**

49. The diagram below is of a blood circulatory system in human beings.

Use it to answer the questions that follow.



(a) What body organ does part **T** represent?

✓ **The heart // The human heart.**

(b) What is the difference in blood carried by blood vessels marked **B** and **C**?

✓ **Blood carried by blood vessel B is deoxygenated while blood vessel C is oxygenated.**

(c) Name the substance which is lacking in the blood carried by the blood vessel marked **A**.

✓ **Oxygen.**

(d) Name the blood vessel marked with letter **C**.

✓ **Pulmonary vein.**

50. (a) What is the function of the claws on an eagle?

✓ **Claws are used for gripping its prey.**

(b) State **two** ways an eagle is adapted to its mode of feeding.

✓ **An eagle has a strong sharp hooked beak for tearing the prey.**

✓ **An eagle has a strong eye sight to spot their prey at a distance.**

✓ **An eagle has strong curved claws for tearing its prey.**

(c) State **one** similarity between birds and reptiles.

✓ **Both birds and reptiles lay eggs.**

51. The table below shows breeds of animals in part **A** and their purposes in part **B**.

Part A: Breeds of cattle	Part B: Purposes
(a) Friesian	production of pork.
(b) Hereford	production of beef.
(c) Zebu	production of milk.
(d) Hampshire	production of milk and beef.

Choose from part B the suitable purpose for every breed and fill in the gaps.

(a) Friesian     **production of milk**

(b) Hereford     **production of beef**

(c) Zebu **production of milk and beef.**

(d) Hampshire **production of pork.**

52. (a) What is poultry?

✓ **Poultry refers to all kinds of domestic birds.**

✓ **Poultry are birds kept at home.**

(b) Why do farmers keep poultry birds at home?

✓ **For meat production // for egg production // we sell birds and get money.**

(c) Mention **one** suitable systems of rearing chicken by most farmers in the village.

✓ **Free range system.**

(d) How is the above mentioned system useful to farmers?

✓ **Birds get a balanced diet.**

✓ **Birds get enough physical exercise.**

✓ **Farmers get time to do other activities**

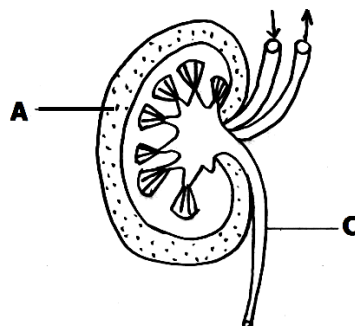
✓ **Poultry vices are reduced**

✓ **Birds get variety of food of their choice**

✓ **Free range method is cheap to maintain**

✓ **Manure from poultry droppings is well distributed in all areas**

53. The diagram below shows a human kidney. Use it to answer the questions that follow.



- (a) Name the part labeled with letter **A**.  
✓ **Cortex**
- (b) What substance goes through the part labeled **C**?  
✓ **Urine.**
- (c) State any **two** functions of the kidney that are similar to those of the skin.  
✓ **Both a kidney and skin excrete excess water from the body.**  
✓ **Both a kidney and skin excrete wastes.**
54. (a) Apart from hearing, state the other function of the human ear.  
✓ **Ears are used for body balance.**
- (b) Why is it advisable to remove wax from the ears?  
✓ **Too much accumulation of wax in the ear causes partial deafness // accumulation of wax leads to deafness.**
- (c) Which part of the ear collects sound waves from the environment?  
✓ **Pinna.**
- (d) Mention **one** example of ear defect.  
✓ **Deafness.**
55. (a) State **two** characteristics of a poisonous snake.  
✓ **Poisonous snake have a pair of poisonous fangs(hollow teeth)**  
✓ **Poisonous snake have poisonous gland that stores venom**
- (b) Mention **one** example of a poisonous snake.  
✓ **Cobra // black mamba // puff adder // Gabon viper.**
- (c) How do most snakes reproduce?  
✓ **By laying eggs.**

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