

Section A (40MARKS)

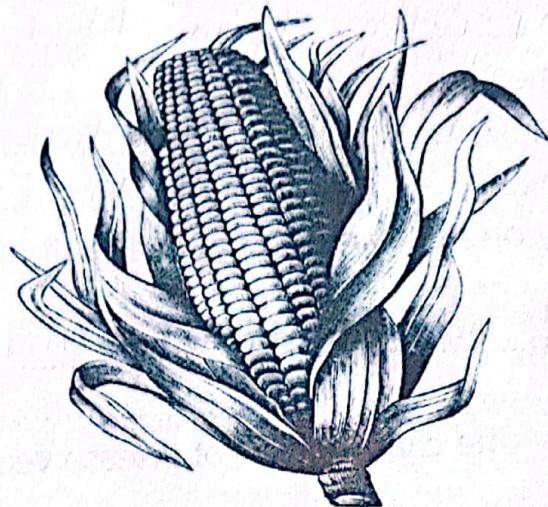
1. Name any **one** sign of a sick rabbit in a rabbitry.
.....Shivering.....
2. How does intercropping improve soil fertility?
.....Leguminous crops when mixed with other crops help to fix nitrogen in the soil.....
3. State any **one** way in which conception is similar to fertilization.
.....Both occur when the gametes meet.....

The diagram below is a device used to harvest wind energy. Study and use it to answer questions that follow.


4. Name the part marked with letter Q.
.....Propeller.....
5. Mention any **one** way in which the wind energy harvested by the above device is useful in the community.
.....It is used in the production of electricity used for domestic work.....
6. Write any **one** component of sugar, salt solutions domes^tic work.
.....Water.....

MR KALULE NOAH

The diagram below shows a certain part of a crop.
Study and use it to answer questions that follow



7. Name the group of crops to which the crop that produces the above part belong.
.....Cereals.....
8. State any **one** reason to support your answer in 7 above.
.....It stores its food in the grains.....
9. Identify any **one** way intestinal worms use to enter into our bodies.
.....Hook worms.....
10. How does gap filling control competition between crops and weeds?
.....In the garden
.....Crops occupy the left spaces, hence
.....Surrounding the weeds.....
11. State any **one** importance of insulators of electricity.
.....They prevent electric shocks by operators
12. Write any **one** reason that makes friction a nuisance force.
.....It causes unnecessary noise.....

The diagram below shows a certain part of a crop.
Study and use it to answer questions that follow



7. Name the group of crops to which the crop that produces the above part belong.

.....Cereals.....

8. State any **one** reason to support your answer in 7 above.

.....It stores its food in the grains.....

9. Identify any **one** way intestinal worms use to enter into our bodies.

.....Hook worms.....

10. How does gap filling control competition between crops and weeds?

.....Crops occupy the left spaces, hence.....

.....Smothering the weeds.....

11. State any **one** importance of insulators of electricity.

.....They prevent electric shocks by operators.....

12. Write any **one** reason that makes friction a nuisance force.

.....It causes unnecessary noise.....

13. Write **one** difference between heat and temperature.

.....Heat is the form of energy that changes

the temperature of an object while transfer to it
is no sense of transfer of form of a place.

14. What is meant by the term first aid?

.....First aid is the immediate help given

.....to a casualty before taking further treatment.

15. State any **one** characteristic of images formed by a pinhole camera.

.....They are inverted.

16. Write any **one** characteristic of disease vectors to spreading germs.

.....They are hairy.

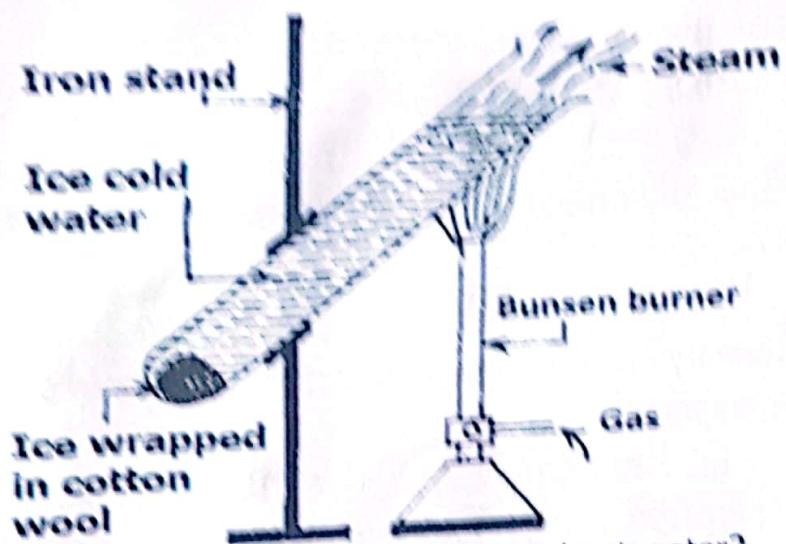
17. In which **one** way are chemical changes useful in our community?

.....They help in formation of new substances
such as brewing alcohol from sugar.

18. How can external parasites among pigs be controlled?

.....By Spraying.

The diagram below proves a certain property about water; use it to answer questions 19, 20 and 21



19. What does the experiment above prove about water?
.....Water exists in all three states of matter.
20. Why was ice cubes wrapped in cotton wool as shown above?
.....To prevent water from freezing.

21. State any one reason why ice cubes never melted after heating water as shown in the diagram above.
.....They do not transfer heat to the water hence
.....heat did not reach them as water is not a conductor of heat.

22. Write one example of a change in the states of matter.
.....Water changes into steam.

23. Write any one importance of keeping breeding records on a farm
.....They help understand its breeding patterns or
.....they help in understanding its breeding patterns or
.....they help in understanding its breeding patterns or

24. In which one way are different methods of heat transfer useful in our surrounding?
.....They enable heat to move from the sun
.....to the earth.

25. Give the meaning of the term soil fertility.

.....Soil.....fertility.....is.....the.....ability.....of.....soil.....to.....support.....plant.....growth.....

26. State any **one** way in which kinetic energy is useful in our daily life.

.....It.....IS.....useful.....in.....production.....of.....electricity.....

27. Identify any **one** system of keeping poultry in poultry management.

.....Free.....range.....System.....

28. Apart from being affordable, give any **other** principle of PHC
.....it.....should.....be.....accessible.....by.....everyone.....

29. Mention any **one** effect of passive smoking in the community.

.....It.....causes.....respiratory.....diseases.....

30. State any **one** kidney disease that results from accumulation of calcium in the body.

.....Kidney.....stones.....

31. In which way is volume different from capacity?

.....Volume.....is.....The.....space.....occupied.....by.....an.....object.....while.....capacity.....is.....The.....ability.....of.....

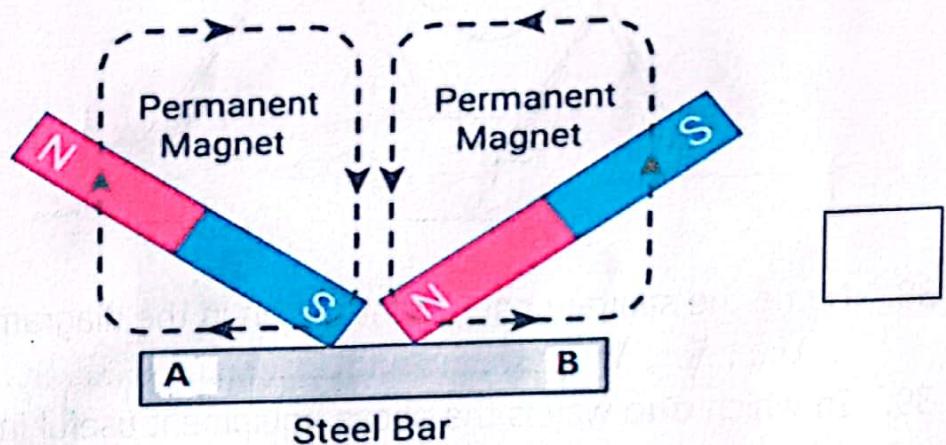
32. Identify the optical instrument used by astronomers to see distant objects clearly.

.....Binoculars.....

33. Give any **one** condition that leads to swarming of bees.

.....Direct.....sunlight.....to.....the.....hive.....

Use the diagram showing the method of making magnets to answer 34, and 35



34. Name the pole marked with letter B.

-
35. Write **one** importance of magnets to electricians

.....They help in fastening together small magnetic tools they use.

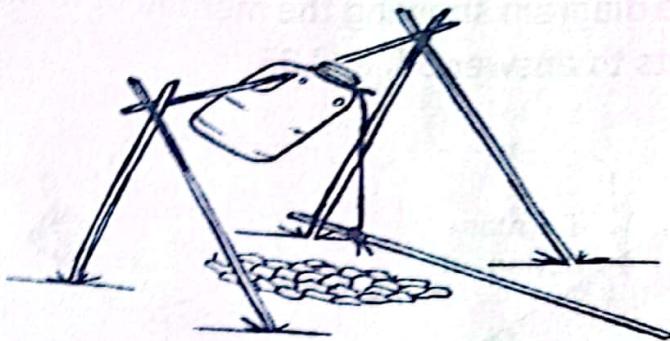
36. Briefly explain how to manage a poultry farm.

.....A poultry farm can properly be managed by proper sheltering, feeding, and treating animals.

37. State the artificial family planning method that involves cutting and tying of sperm ducts.

.....Vasectomy:

The diagram below shows sanitary equipment; use it to answer questions 39 and 40.



38. Name the sanitary equipment shown in the diagram.

.....Tippy Tap.....

39. In which **one** way is the above equipment useful in the control of diarrhoeal diseases?

.....It prevents direct hand contact to the equipment.....

40. Mention any **one** immunisable disease that attacks the brain

.....Meningitis.....

Section B (60MARKS)

41. (a) Give the meaning of the following terms;

(i) Immunity

.....Is the body's ability to resist diseases.....

(ii) Immunization

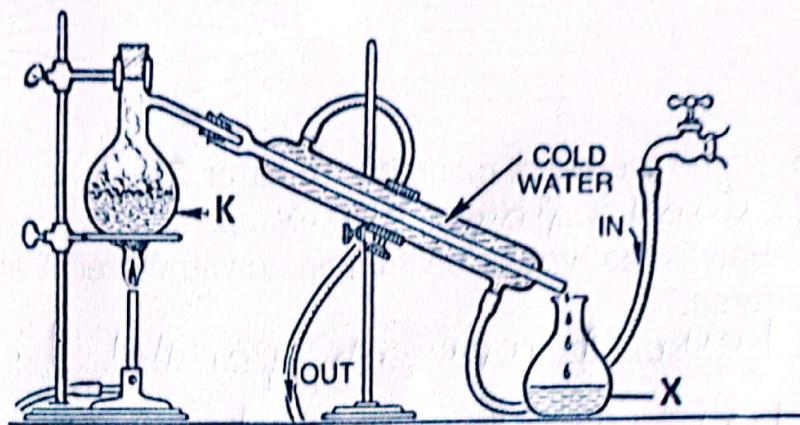
.....Is the introduction of a vaccine in the body to cause immunity.....

(b) Give any **one** reason why polio vaccine is given more than once to people.

.....

.....Left upper arm.....

The diagram below shows a method of making alcohol; use it to answer question 42.



42. a) What name is given to the method of making alcohol above?

.....Distillation method.....

- (b) Identify the substances labeled with letters K and X.

KCrude.....beer..... XDistilate.....

- (c) Of what importance is cold water during the alcohol production in the above method?

.....To cool down stream to liquid.....

43. a) Give any one example of devices that uses the following

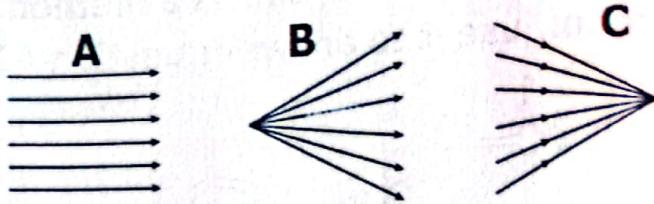
- (i) Divergent beam.

.....Car.....head-lamps.....

- (ii) Parallel beam.

.....Torch.....

Study the types of beams below to answer questions that follow



b) Name the beam marked with letter C

.....Converging beam.....

c) How is the type of beam marked with letter A and B different?

.....Letter A represents parallel beam while.....

.....Letter B represents diverging beam.....

44. a) Give any **two** permanent teeth characterized with broad surfaces with cusps for chewing food.

(i)Molars.....

(ii)Pre-molars.....

(b) State any **two** components of the teeth structure in man.

(i)Enamel.....

(ii)Dentine.....

45. (a) Give any **one** importance of rain clouds to crop farmers.

.....Some rain clouds bring rainfall to farmers.....

(b) Write down **one** effect of clouds in the environment.

.....Thick clouds block sun rays from reaching the earth.....

(c) Which type of clouds are a clear sign of fair weather?

.....

(d) Mention any **one** danger of too much rainfall to crops.

.....Too much rainfall can lead to soil erosion.....

Below is a method showing a simple food store, use it to answer questions that follow.



46. a) Name the type of food store shown in the above diagram

.....Cereals.....

- c) Write **one** adaptation of part marked K to preventing rats from entering the food store above.

.....They have got a cup-like structure facing the rat's entry.

- (c) State any **two** advantages of using silos over granaries.

(i) Silos are cheaper than granaries.

- (ii) Silos ~~are~~ are movable and can be kept in safer places than granaries.

47. a) State the reason why some animals are said to be non vertebrates.

.....They do not have the Vertebral column.....

- b) Write any **two** characteristics that differentiate between arthropods and mollusks.

(i) Mollusks have tentacles for feeding while arthropods have antennae.

(ii) Arthropods have got jointed legs while mollusks have no legs.

c) Mention any one group of arthropods with a mantle.

48. Mention any one use of echoes to the following mammals;

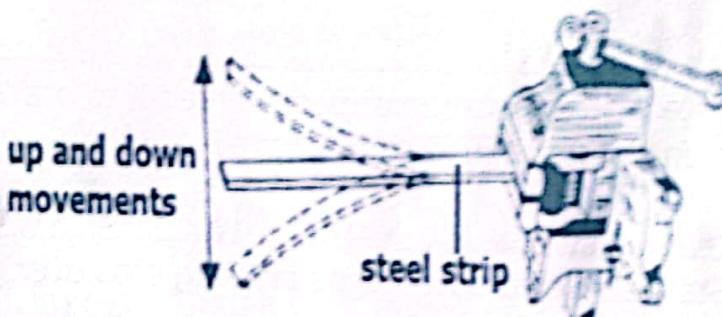
- (i) Sea mammals

.....They are used to locate food.

- (ii) Flying mammals

.....They use echoes to locate obstacles.

Study the musical instrument below to answer questions that follow correctly



(b) What name is given to the up and down movements shown in the diagram above?

.....Frequency.....

(c) State the result of up and down movements made per second

.....It pro. Causes sound production.....

49. In four sentences, describe how to recover the salt mixed with sand by evaporation to dryness.

(i) ...pour water in the sand-salt mixture
...and stir.

(ii) ...put the mixture of sand, salt and water
...in a pan and boil to dryness.

(iii) ...After boiling to dryness, the salt crystals
...will form and they are sorted out from

(iv)

50(a) State any **two** body changes that develops under puberty.

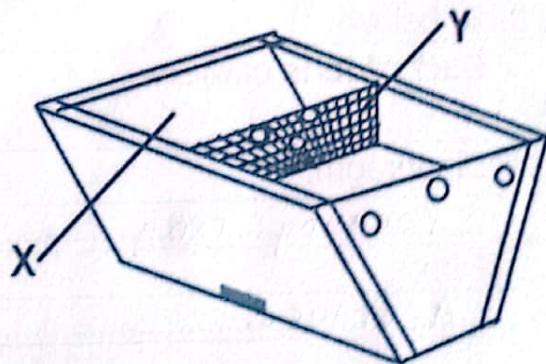
- . (i)Growth....of....pubic....hair.....
- (ii)Sweat....glands....get....More....activation....

b) State any **one** way in secondary sex characteristics are important in the environment.

.....They....show....maturity....henie....enabling....
.....production....and....multiplication.....

c) State one way of caring for the reproductive system

.....By.....washing.....the.....reproductive.....organs.....as.....requires
Below is a diagram of type of beehives, use it to answer questions that follow.



51 a) Name the modern beehive shown in the diagram.

.....Top.....bar.....hive.....

b) Identify the part marked with letter X.

.....Queen.....excluder.....

c) State the adaptation of part marked with letter Y its function.

.....The head has small size of holes which cannot enable the queen to get through to the next chamber.

(d) Give any one way honeybees regulate temperature in the above hive.

.....By flapping their wings.....

52 a) State the meaning of the term artificial brooding.

.....This is when the mother hen is provided

b) Identify any one instrument used to carry out artificial brooding

.....Brooder heater.....

c) State any two advantages of artificial brooding on a poultry farm

(i)

.....It releases the mother hen from taking care of chicks.....

(ii)

.....Large number of chicks can be reared.....
.....compared to natural brooding.....

53. Complete the table below.

Part of human eye	Part of lens camera
Retina	Diaphragm.
Ciliary muscle	Focusing ring
Retina	Film
Pupil	Aperture

54 (a) Briefly explain the following terms;

(i) Lunar eclipse.

.....Is the type of eclipse where the moon is between the sun and the earth.

(ii) Solar eclipse

.....like.....by.....at.....sun.....where.....will.....see.....
.....the.....sun.....and.....the.....will.....be.....seen.....

(b) Give any **two** common importance of shadows.

(i)They.....present.....direct.....heat.....and.....the.....heat.....

(ii)Shadows.....provide.....cool.....place.....for.....resting.....

55. (a) In which **one** way have wedges contributed to environment degradation?

.....Wedges.....have.....been.....used.....in.....the.....rapid.....destruction.....
.....of.....trees.....

(b) Write any **one** example of a double inclined plane commonly used by people to degrade the environment.

.....Power.....Saw.....

(c) Write any **two** ways of keeping the efficiency of wedges.

(i)By.....Sharpening.....them.....when.....necessary.....

(ii)Keep.....them.....in.....cool.....dry.....place.....to.....avoid.....
.....rusting.....

Mr. Kalule Noah Wishes You Success.

H9) - i) Pour water in the sand salt mixture and stir until salt dissolves.

ii) Sieve out sand from the water salt solution.

iii) Boil the salt-water mixture in a pan to dryness and salt crystals will be formed at the bottom of the pan.