**ITEM 1**
**INTERGRATED SCIENCE**
*Time allowed: 2 Hours 15 minutes*

## *SECTION A*

1. Name the sense organ which tells that tea is very sweet.

   _____

2. What problem results after the eardrum has burst in the ear?

   _____

3. Why is forest conservation encouraged in Uganda?

   _____

4. How is a plate stand useful to a family in a home?

   _____

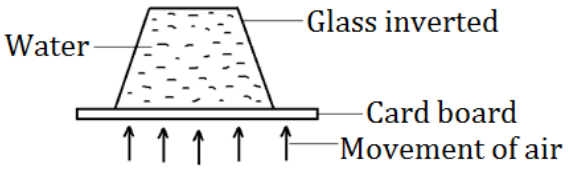
5. Identify the type of joint in the body which gives a wide range of movement.

   _____

6. Give one advantage of Bio-gas production to environment?

   _____

7. What does the experiment below show?




   _____

   _____

8. How is a short circuit dangerous in a home?

   _____

9. State one effect of polio disease to an individual.

   _____

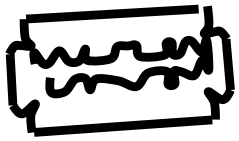
10. Why is friction said to be a nuisance force?

    _____

11. How do animals make use of the gas given out by plants during respiration?

    _____

12. Identify the simple machine shown below.

 _____

13. State any one similarity between a rat and a bat as a mammal.

_____

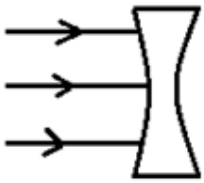
14. Which blood cells are destroyed by a plasmodium germ?

_____

15. How do humans get infected with tape worm?

_____

16. Complete the diagram showing light rays as they leave the lens below.



17. What problem is Jenifer likely to face if she eats food without washing her hands?

_____

18. Why is rubber and plastics used to insulate electric live wires?

_____

19. Name one object which floats on water.

_____

20. Which type of teeth is used for cutting food?

_____

21. Which part of the human ear is responsible for balancing the body?

_____

22. How can the volume of irregular objects be measured?

_____

23. Give one danger of digging in wetlands.

_____

24. Why is sandy soil not good for farming?

_____

25. Identify one common secondary characteristic in both boys and girls.

_____

26. How is a dustbin useful in a school?

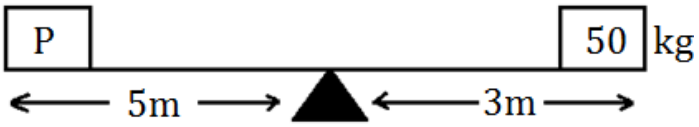
_____

27. Give one method of making a temporary magnet.

_____

28. How is wind used as an energy resource?

_____




29. Find the weight of 'P' if the level is balancing.

30. Why is tying between the heart and injured part a good first aid for a snake bite?

_____

_____

31. Which vector is responsible for spreading sleeping sickness in homes?

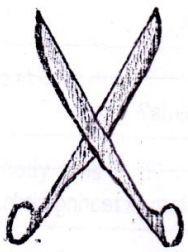
_____

32. A block has a mass of 24gm and a density of 4gm/cc. Find its volume.

33. Which immunisable disease makes the muscles of a person stiff?

_____

34. On the diagram below, show the position of the pivot with letter P.



35. Give the use of saliva in the digestion process.

_____

36. How is the human skin a useful organ of the body?

_____

37. Mention one health habit which keeps kidneys healthy.

_____

38. State one use of light from the sun in the environment.

_____

39. Give one disadvantage of the range system of rearing animals.

_____

40. How is a Vent Pipe on a VIP Latrine Useful?

_____

***SECTION B: 60 Marks***

41. (a) Name any one example of poultry.

_____

(b) Why do farmers keep Dual purpose birds?

_____

(c) Give one disadvantage of battery system of rearing birds.

_____

(d) Identify a poultry disease caused by protozoa.

_____

42. (a) What is dehydration?

_____

_____

(b) Give one sign of dehydration.

_____

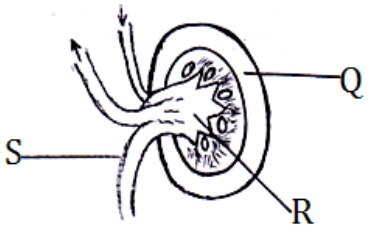
(c) Mention one cause of dehydration.

_____

(d) How can dehydration be controlled?

_____

43. ***The diagram shows a human kidney***.



(a) Name the part labeled R.

_____

(b) What activity is done at Q?

_____

(c) To which part of the body does S go?

_____

(d) Give one disease which affects the kidneys.

_____

44. ***The diagram shows a baby who received immunization***.
Show the immunizable sites for (i) DPT Vaccine ii) Measles Vaccine
iii) BCG iv) Polio Vaccine

45. (a) What are organic manures?

_____

_____

(b) Name two types of organic manures.

(i) _____

(ii) _____

46. (a) Give any two ways how animals depend on plants.

(i) _____

(ii) _____

(b) Identify one way how plants depend on other plants.

_____

(c) Mention one way how animals depend on other animals.

_____

47. (a) How is sound energy produced?

_____

_____

(b) Why do we store sound?

_____ (c) Give one factor determining the pitch of sound.

_____

_____

(d) Name one percussion instrument.

_____

48. (a) State one way of preserving milk.

_____

(b) Why is inbreeding a bad practice on a farm?

_____

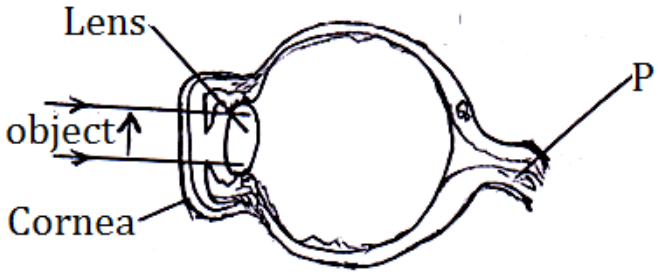
(c) How is colostrums milk good to a calf?

_____

(d) Name one viral disease in cattle.

_____

49. ***The diagram below shows a human eye. Use it to answer questions about it.***




(a) Name the part labeled with letter P.

_____

(b) Draw the image of the object in the eye.

_____

(c) State the use of the cornea.

_____

(d) Name any one eye defect.

_____

50. (a) Identify two types of pollination.

(i) _____

(ii) _____

(b) Give one agent of pollination.

_____

(c) How is pollination important to plants?

_____

51. (a) Give one difference in germination of monocotyledonous and dicotyledonous.

( b) Mention one condition required for a seed to germinate.

_____

(c) Apart from using chemicals, give two ways of controlling pests in a garden.

(i) _____

(ii) _____

52. (a) Identify two uses of carbondioxide in daily life.

(i) _____

(ii) _____

(b) Other than carbon dioxide, name any other gas that form part of air.

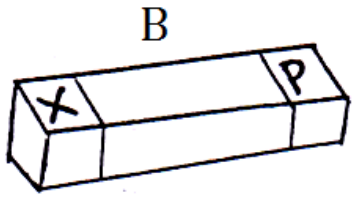
_____

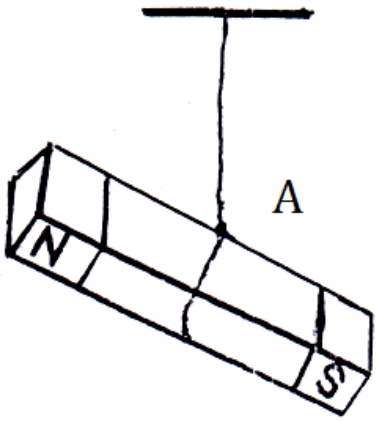
(c) State one disadvantage of wind in the environment.

_____

_____

53. ***The diagram shows a freely suspended magnet A. Magnet B was brought close to it as shown in the diagram***.




(a)

_____

(b) Why did magnet A and B remain apart as shown?

_____

_____

(c) Give one way of demagnetizing magnets.

_____

(d) How are magnets useful in the environment?

_____

54. (a) Name the blood vessel which carries deoxygenated blood from the body back to the heart.

_____

(b) What type of blood is carried by the Aorta?

_____

(c) State one function of blood in the body.

_____

_____

(d) How is the HIV/AIDS virus a danger to the circulatory system?

_____

_____

55. (a) Give any two requirements for starting a farm.

(i) _____

(ii) _____

(b) Why are income and expenditure records kept on a farm?

(i) _____

(ii) _____

***END***

**ITEM 2**
**INTEGRATED SCIENCE**
*Time allowed: 2 Hours 15 minutes*

## *SECTION A*

1. Apart from the lungs and skin, name any one other excretory organ.

   _____

2. What type of energy is possessed by a falling mango fruit before reaching the ground?

   _____

3. State any one reason why some plants climb others.

   _____

4. Mention any one common use of sand at home.

   _____

5. What first aid would you give to someone who has been burnt by a hot nail?

   _____

6. Give any one practice that may control the spread of cholera in your school.

   _____

7. Mention any one way in which crops benefit from trees in agro-forestry.

   _____

8. How does a rat differ from a cockroach in the way they breathe?

   _____

   _____

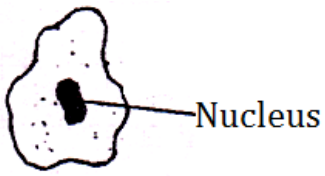
9. Give any one way in which soil is important to plants.

   _____

10. Why is a wet cloth put on the body on a person with high fever?

    _____

***The diagram below shows a blood cell. Use it to answer questions 11 and 12***.




11. What type of blood cell is shown above?

    _____

12. State the function of blood cell in (11) above.

    _____

    _____

13. What type of skeleton does a snail have?

    _____

14. Name any one example of a leguminous crop.

    _____

15. Give one reason why air is considered to be matter.

    _____

16. Mention one disadvantage of keeping poultry on free range system.

    _____

17. Give any one way in which people misuse drugs.

    _____

18. Which human sense organ is attached by trachoma?

    _____

19. In which one way is a biological change similar to a chemical change?

    _____

20. State the method of making magnets without using another magnet.

    _____

21. Identify any one common food that can be peeled, dried and pounded before it is prepared for eating as food.

    _____

22. State one problem people who make bricks out of loam soil with small stones face. _____

    _____

23. In the space below, draw a simple movable pulley.

24. State a reason why VIP lacks a lid cover at the hole?

    _____

    _____

25. What method is used by people who keep bees to encourage bees to occupy empty bee hive?

_____

_____

26. Give the role played by hydrochloric acid in the process of digestion?

_____

_____

27. State any one way people can make good use of echoes.

_____

_____

28. Mention any one way a P.7 child can prevent an axe from rusting.

_____

_____

29. Identify any one sign of heat period in female animals.

_____

_____

30. Give a reason why black objects are seen to be black?

_____

_____

31. What is the use of ear to a deaf person?

_____

_____

32. State the importance of the garden tool below to a farmer.

_____

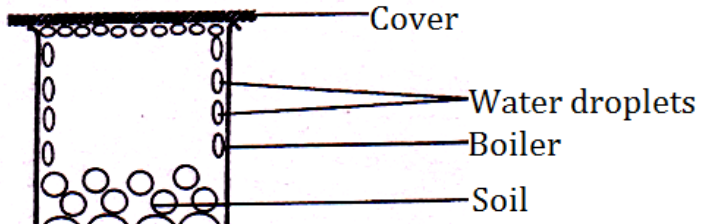
33. What name is given to the larva stage of a bee?

_____

34. Which bone in human skeleton protects the brains?

_____

35. Mention the component of soil shown in the diagram below.



_____

36. The front door at home makes noise at hinges as you open it. What advice can you give to your parents to stop this?

_____

37. How does heat travel in a nail?

_____

38. Which immunisable disease causes stiffness of body muscles in babies?

_____

39. Mention any one example of a coniferous plant apart from pine and eucalyptus.

_____

40. Give any one difference between images formed on plane mirror and a lens camera.

_____

_____

***SECTION B (60 Marks)***

41. (a) Identify any one secondary sex characteristic that happen both in girls and boys during adolescence.

_____

_____

(b) State any two problems that may be a result of frequent pregnancies by a mother at home.

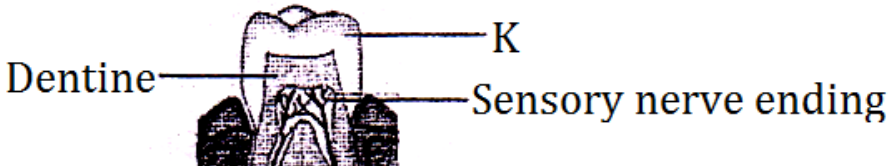
(i) _____

(ii) _____

(c) Give any one way in which a P.7 child can avoid teenage pregnancies.

_____

42. ***The diagram below is a human tooth. Use it to answer the questions that follow***.



(a) Name the parts marked with letters K and L.

(i) K _____

(ii) L _____

(b) Give the function of each of the following parts of the tooth.

(i) Cement:

_____

(ii) Sensory nerve ending:

_____

43. (a) Give any one reason why a rabbit hutch is raised above the ground.

_____

(b) State any two reasons why a wire mesh is used in building a rabbit hutch.

(i) _____

(ii) _____

(c) Name any one food stuff rabbits feed on.

_____

44. (a) Write any two causes of soil erosion.

(i) _____

(ii) _____

(b) Give any two ways soil erosion can be controlled in an area.

(i) _____

(ii) _____

45. (a) Which vector spreads the diseases below?

(i) Scabies: _____

(ii) Cholera: _____

(b) Give a reason why a female anopheles mosquito does not spread HIV/AIDS?

_____

_____

(c) How can a P.7 child prevent tape worm infection in his/her home?

_____

_____

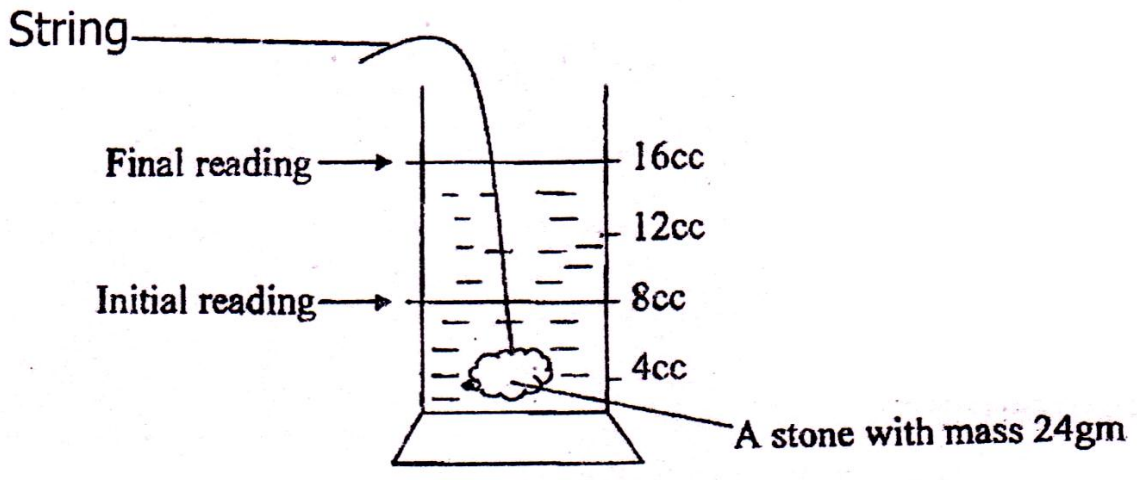
46. (a) Name any two body organs that make up the circulatory system.
(i) _____
(ii) _____
(b) State the function of red bone marrow in short bones of the skeleton.
_____
(c) Which component of blood helps in clotting of blood at a cut?
_____

47. (a) What friction force opposes a small stone thrown into a jerrycan of cooking oil? _____
(b) State any two advantages of friction to man.
(i) _____

(ii) _____
(c) State any one way friction can be reduced in a machine?
_____

48. (a) Write down two methods used to get clean and safe drinking water from dirty water.
(i) _____
(ii) _____
(b) Mention any two causes of water contamination in water bodies.
(i) _____
(ii) _____

49. ***A primary five boy set up experiment assembly. Use it to answer questions that follow***.



(a) Name the method for experiment set by the P.5 boy.

_____

(b) Calculate the density of the stone.
(2mks)

(c) Name the container used in the experiment above.

_____

50. ***Match the diseases in list A to the animals they attack in list B below correctly***.

| **List A** | **List B** |
|---|---|
| New castle disease | Cattle |
| African swine fever | Mad dogs |
| Rabies | Poultry |
| Render pest | Pigs |

(i) New castle _____ (ii) African swine fever _____

(iii) Rabies _____

(iv) Render pest _____

51. (a) How does each of the following animals protect itself from enemies?
(i) Porcupine:

_____

(ii) Wasp:

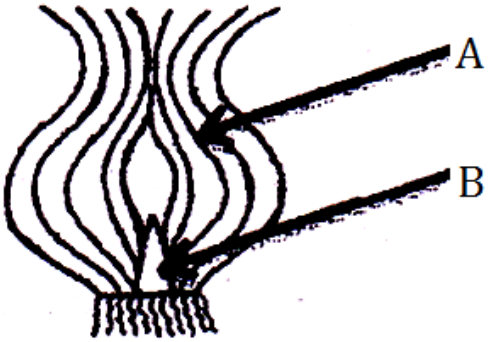
_____

(b) Name the animal that stays in a:

(i) Sty: _____

(ii) Den: _____

52. ***The diagram below shows an onion. Use it to answer questions that follow***.




(a) Name the part labeled B.

_____

(b) What is the function of part labeled A?

_____

(c) Identify the type of root the plant above has.

_____

(d) How is the plant above propagated?

_____

53. Use one sentence to state the meaning of each of the following;

(a) Reflection of light

_____

_____

(b) Refraction of light

_____

_____

(b) Spectrum

_____

_____

(d) What type of reflection is produced from rough shinning surface?

_____

_____

54. (a) List down two agents of seed dispersal.

(i) _____

(ii) _____

(b) State any two advantages of seed dispersal.

(i) _____

(ii) _____

55. (a) Give any two examples of accidents that can happen at school apart from a burn, scald and fracture.

(i) _____

(ii) _____

(i) State any two reasons why accident victims should be given first aid.

(i) _____

(ii) _____

END

**ITEM 3**
**INTERGRATED SCIENCE**
*Time allowed: 2 Hours 15 minutes*

## SECTION A

## QUESTIONS 1 – 40 CARRY ONE MARK EACH

**1.** Apart from air and water, name any one non-living component of the environment.

……
…….

**2.** Mention one type of poultry kept in Uganda.

……
…….

**3.** Which element of the Primary Health Care (PHC) helps to care for expectant mothers and newly born babies?

……
…….

**The diagram below shows the blood cell. Use it to answer questions 4 and 5.**

**4.** Name the blood cell shown above.

……
…….

**5.** What is the function of the above blood cell in the body?

……
……

**6.** Give the meaning of the term short circuit in electricity?

……
……

**7.** How are ferns different from conifers in terms of reproduction?

……
……

……
……

**8.** How is the transmission of cholera similar to trachoma?

……
……

**9.** State one property of floating objects.

……
……

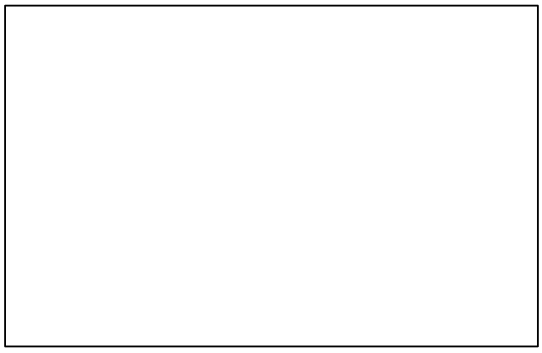
**10.** Give one similarity among the following vertebrates, birds, bats and cats.

……
……

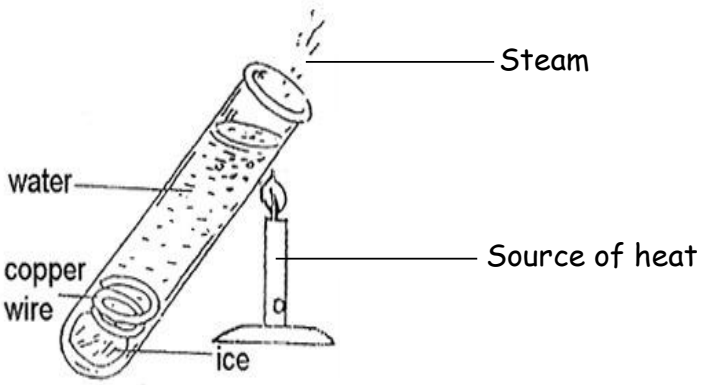
**11.** How can a primary seven pupil find the volume of an egg?

……
……

**12.** In the space below, draw a diagram to show cross pollination in flowers.



**13.** Study the experiment below and answer the question that follows.




**Why doesn't the ice at the bottom of the test tube melt?**

……
……

**14.** Identify any one method of controlling the internal parasites in cattle.

……
……

**15.** Which part of the digestive system is responsible for producing saliva?

……
……

**16.** Besides bacteria, which other living organisms help in the making of alcohol?

……
……

**17.** What is the importance of the jelly covering the egg of the frog?

……
……

**18.** State the energy change that takes place in a dry cell when the circuit is complete.

……
……

**19.** Write any one energy resources got from animals.

……
……

**20.** Mention one activity in a community that is done to control spread of measles.

……
……

**21.** Give one example of a constrictor.

……
……

**22.** State one characteristic of clay soil.

……
……

**23.** How does breast feeding protect the newly born baby against diarrhoea diseases?

……
……

……
……

**24.** Why should people spread out their beddings regularly in the sunshine?

……
……

……
……

**25.** How is the catching of young fish a danger to the environment?

……
……

……
……

**26.** A tongue is a sense for taste. Mention one taste.

……
……

**27.** Explain how deforestation can affect the production of hydroelectricity.

……
……

……
……

**28.** How does blood regulate the body temperature?

……
……

……
……

**29.** Give one situation where conduction of heat is useful in our everyday life.

……
……

**30.** Name the excretory organ that regulates the blood sugar in the body.

……
……

**31.** Mention one natural change which can destroy the environment?

……
……

**32.** Name the method of harvesting trees shown in the diagram below:

……
……

……
……

**33.** Mention any one disease that attacks the spinal cord.

……
……

**34.** Why are roughages recommended in our diet?

……
……

……
……

**35.** Give any one factor which affects the pitch of sound produced by a guitar with strings.

……
……

**36.** State one advantage of using electricity for cooking.

……
……

**37.** State one cause of truancy in schools.

……
……

**38.** Why is a plant called a producer in food chain?

……
……

**39.** Apart from hearing, state any one function of the ear.

……
……

**40.** Which biological change can lead to the formation of rainfall?

……
……

## SECTION B

**41.** Write down 4 population and health concerns in the society.

i. ……
……...

ii. ……
……...

iii. ……
……...

iv. ……
……...

**42.** (a) Mention any one type of cattle.

……
……

(b) How does a cow help to control kwashiorkor?

……
……

……
……

(c) Which livestock management practice enables the farmer to prevent random mating?

……
……

(d) In which way is cheese important food to people?

……
……

**43. Study the list of animals below and use it to answer the questions that follow.**

**Gecko, Chameleon, Pelican, Newts.**

(a) Which of the above animals has different mode of fertilization?

……
……

(b) Identify the warm-blooded animal from the list.

……
……

(c) Give the similarity between the chameleon and gecko.

……
……

(d) Which group of birds does a pelican belong?

……
……

**44.** Arrange the following processes in their order of happening.

(a) The plumule grows

(b) The seeds swell

(c) The radicles appear

(d) The seeds take in air and moisture

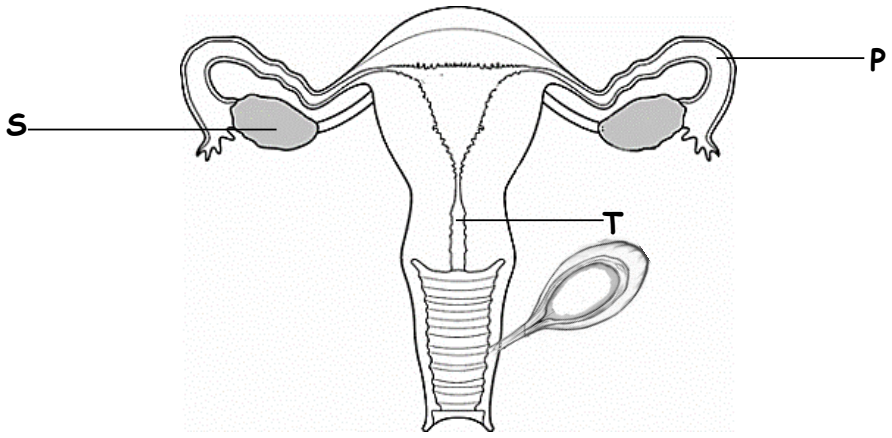
(a) ……
……..

(b) ……
……..

(c) ……
……..

(d) ……
……..

**45. The diagram below shows the female reproductive system, study it and answer the questions that follow.**




(a) Name the part marked S.

……
……

(b) Where does implantation take place?

……
……

(c) What type of pregnancy occurs in part P?

……
……

(d) State one disorder that results in the types of pregnancy mentioned in (c) above.

……
……

**46.** (a) State any two activities carried out by the science clubs at your school.

i. ……
……...

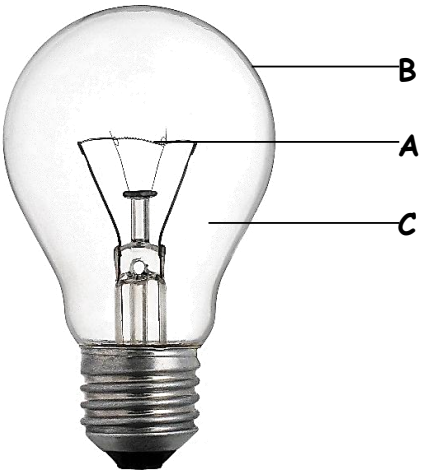
ii. ……
……...

(b) Give any two reasons why members of the young farmers association at your school should keep farm records.

i. ……
……

ii. ……
……

**47. The diagram below is of an electric bulb. Use it to answer the questions that follow.**




(a) Name the part labelled A.

……
……..

(b) Why is part marked with letter A coiled?

……
……..

(c) What is the use of organ gas in part marked C?

……
……..

(d) What energy change takes place when an electric bulb is in use?

……
……..

**48. Match the following words correctly with their meanings:**

| List A | List B |
|---|---|
| Soil profile | Natural arrangement of soil particles. |
| Soil structure | Natural vertical arrangement of soil layers. |
| Soil erosion | Draining of soil nutrients from top to bottom. |
| Soil leaching | Transfer of top soil from one place to another. |

(a) Soil profile

……
…….

(b) Soil structure

……
…….

(c) Soil erosion

……
…….

(d) Soil leaching

……
…….

**49.** State the role of the following organism in a food chain cycle.

(a) Green plants

……
……..

(b) A goat

……
……..

(c) A pit

……
……..

(d) Bacteria

……
……..

**50.** (a) Show with arrows the direction of lines in a magnet.

(b) Name the three ways of demagnetizing the above bar magnet.

i. ……
……

ii. ……
……

iii. ……
……

**51.** (a) Give one pest that affects the crops below:

i. Maize
……
……..

ii. Coffee
……
……..

iii. Banana
……
……..

(b) Besides food and income, give one other use of bananas to man.

……
……..

**52.** (a) Give two agents of pollination.

i. ……
……

ii. ……
……

(b) How is the stamen of the flower important to the plant?

……
……..

(c) How does a pawpaw plant avoid self-pollination?

……
……..

**53.** (a) Name the type of skeleton possessed by each organism below:

i. Frog

……
……

ii. Amoeba

……
……

(b) Which part of the human skeleton protects the spinal cord?

……
……..

(c) How are muscles useful to the human skeleton?

……
……..

**54.** (a) What is antisocial behaviour?

……
……..

(b) Give any two types of anti-social behaviours in the society.

i. ……
……..

ii. ……
……

(c) State any one cause of anti-social behaviour in the society.

……
……..

**55.** Define the following terms as used in the digestion process in man.

(a) Ingestion of food.

……
……..

(b) Assimilation of food.

……
……..

(c) Absorption of food.

……
……..

(d) Egestion of food.

……
……..

*****END*****

**ITEM 4**
**INTERGRATED SCIENCE**
*Time allowed: 2 Hours 15 minutes*

## SECTION A

## QUESTIONS 1 – 40 CARRY ONE MARK EACH

**56.**Name one domestic animal used for transport.

……
……

**57.**Give the function of the radical to a germinating seed.

……
……

**58.**Name one traditional method of food preservation that does not use fire.

……
……

**59.**What state of matter is porridge?

……
……

**60.**Why is clean water and soap used for cleaning hands after visiting a latrine or toilet?

……
……

**61.**How is the reproduction of man similar to that of a rat?

……
……

……
……

**62.**Name one cold-blooded vertebrate that has body shell.

……
……

**63.**Mention any one way in which human beings use energy from the sun.

……
……

**64.**Give one activity at home that can control the spread of malaria.

……
……

**65.** Apart from proteins, name one class of food which should be given to the vulnerable people in the community.

……
……

**66.** Give one insect pest of maize.

……
……

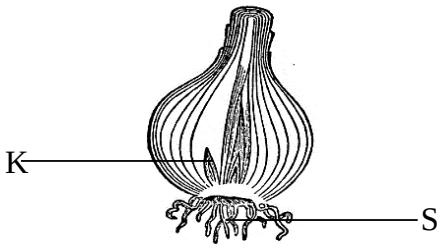
**67.** Why do people who harvest honey wear bee veils?

……
……

**68.** What type of farming should a farmer use to get both crops and animal products?

……
……

**69. <u>The diagram below is of a bulb, use it to answer the questions that follow:</u>**




Name the type of roots marked s.

……
……

**70.** How useful is part marked k?

……
……

**71.** Give a reason why distilled water is not recommended for drinking?

……
……

**72.** Name the device used to guard against damage to appliances by too much electric current.

……
……

**73.** State any way in which a farmer can control crop diseases without using chemicals.

……
……

**74.** Give one practice that can help to control the spread of cholera in a school.

……
……

**75.** Which structure in the white blood cells help it to fight disease causing germs in the body?

……
……

**76.** Why should a child suffering from kwashiorkor be given food rich in proteins?

……
……

**77.** What is diffusion?

……
……

……
……

**78.** Which type of soil allows water to go through it easily?

……
……

**79.** Give any one reason why human beings breathe in.

……
……

**80.** Apart from a zebra-crossing, give one spot where a school child can easily cross a busy road.

……
……

**81.** To which group of machines is a road winding uphill?

……
……

**82.** Besides rolling food, give any one function of the tongue in the process of digestion.

……
……

**83.** State one similarity in structure of a snake and a tortoise.

……
……

**84.** Mention any one way in which communicable diseases are spread.

……
……

**85.** How is a web useful to a spider?

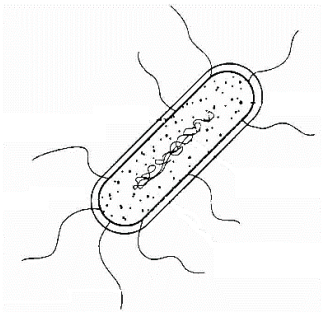
……
……

**86.** **<u>Study the diagram below and use it to answer question 31</u>**.

Name part labelled M.

……
……

**87.** Name the type of bacteria shown below.

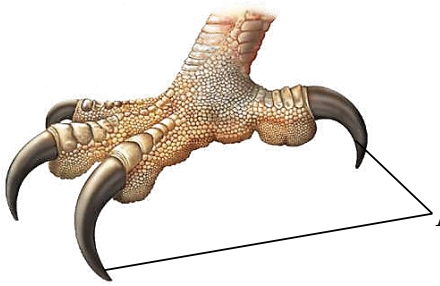


……
……

**88.** State one natural source of sound energy.

……
……

**89.** Study the foot of a bird below. Give the importance of the part marked A to the bird.




……
……

……
……

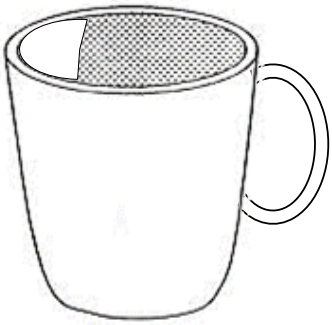
**90.** Mention one natural cause of a family failing to have enough food.

……
……

**91.** By what process does heat reach a person who is sitting one metre away from a burning charcoal stove?

……
……

**92.** Study the instrument below carefully as used by dairy farmers. State the use of the instrument.



……
……

……
……

**93.** Why do birds swallow small stones?

……
……

**94.** Write down one by-product of respiration.

……
……

**95.** In the space below, draw a diagram of a germinating monocotyledonous plant.

## SECTION B

**96.**

(a) Name the female reproduction cells in mammals.

……
……

(b) What will be the result if the above-mentioned cell unites with a sperm cell?

……
……

(c) Which method of family planning can help one to control the spread of STD's?

……
……

(d) Write down one disorder of the human reproductive system.

……
……

**97.** Explain the following terms as related to accidents:

(a) Fracture :

……
……

(b) A cut :

……
……

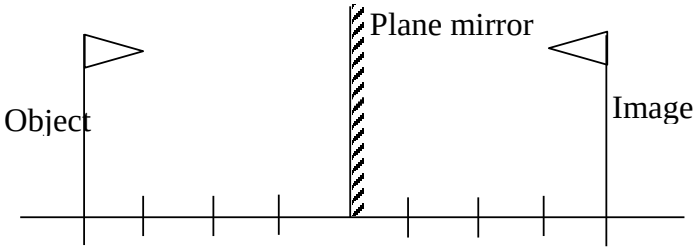
(c) Clutch :

……
……

(d) Dislocation

……
……

**98. <u>The diagram below shows behaviour of objects placed in front of plane mirrors. Use it to answer questions that follow.</u>**




(a) Define a plane mirror.

……
……

(b) Write down two characteristics of image formed in a plane mirror.

i. ……
……

ii. ……
……

(c) Give any one difference between images formed in a pin hole camera and a plane mirror.

……
……

**99.** State the type of change which occurs in each below:

(a) Cloud formation.

……
……..

(b) Digestion of food in man.

……
……..

(c) Germination.

……
……..

(d) Rusting in metallic objects.

……
……..

**100.**

(a) What is brooding as used in poultry?

……
……

……
……

(b) Name the special structure where young chicks are kept.

……
……

(c) State two advantages of using the structure mentioned in (b) above.

i. ……
……

ii. ……
……

**101.**

(a) Identify any one external parasites in goats.

……
……

(b) What is the gestation period of a goat?

……
……

(c) State any one method of grazing goats.

……
……

(d) Apart from getting milk, state any one importance of keeping goats in Uganda.

……
……

**102. <u>The table below shows different groups of animals. Use it to answer the questions that follow.</u>**

| A | B | C | D |
|---|---|---|---|
| **FROG** | **SNAIL** | **RAT** | **SNAKE** |

(a) In which way are animals A, C and D similar?

……
……

……
……

(b) How is the reproduction of the animal D different from that in C?

……
……

……
……

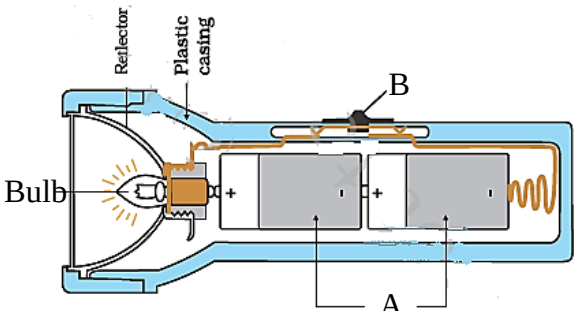
(c) To which class of animal does animal B belong?

……
……

(d) How does animal A protect itself against its enemies?

……
……

**103. <u>Use the diagram to answer questions that follow.</u>**



(a) Name the part labeled with letter B.

……
……

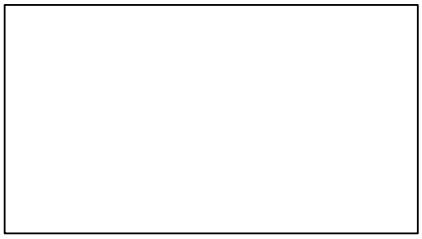
(b) Why is the bulb filament coiled?

……
……

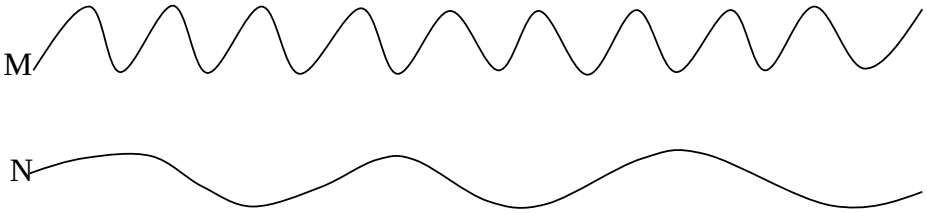
(c) What energy change takes place in a bulb when the switch is working?

……
……

(d) Draw a symbol for a fuse in electricity.



**104. <u>The diagrams below represent sound waves M and N, use them to answer questions which follow.</u>**




(a) Compare the sounds produced by two waves M and N.

……
……

(b) Give any one way in which sound and light are similar.

……
……

(c) How are sound waves caused?

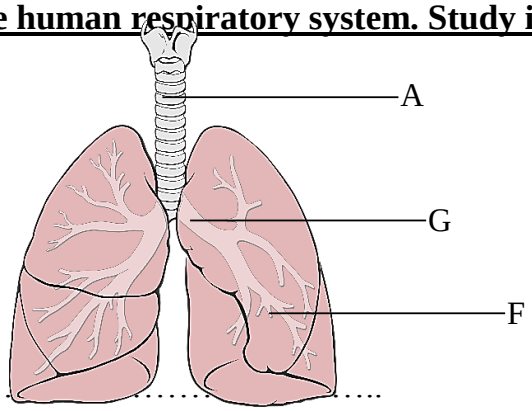
……
……

……
……

(d) State the unit of frequency.

……
……

**105. <u>The diagram below is of the human respiratory system. Study it and use it to answer questions that follow.</u>**




(a) Name the parts labelled:

A ……
B……

(b) What process takes place in the part labelled F?

……
……

(c) Identify one disease of the respiratory system.

……
……

**106.**

(a) Give the difference between volume and temperature.

……
……

……
……

(b) Convert 30℃to the Fahrenheit scale.

(c) State one reason why mercury is used in thermometers.

……
……

**107.**

(a) Which element of P.H.C is promoted by:

i. Proper feeding of children?

……
……

ii. Slashing grass in our compound?

……
……

iii. Ironing clothes after washing them?

……
……

(b) Name any one cause of sickness in the home and community.

……
……

**108.**

(a) Give one example of a bird that pollinates flowers.

……
……

(b) Where does pollination take place in a flower?

……
……

(c) Besides "stamen", what other term is used to identify the male part of a flower?

……
……

(d) In which way can good scent of flowers be used to the plant?

……
……

**109. <u>Man is one of the agents of environmental degradation.</u>**

(a) What is environmental degradation?

……
……

(b) Identify any two human activities that have led to environmental degradation.

i. ……
……

ii. ……
……

(c) How has NEMA tackled environmental degradation in Uganda?

……
……

**110.** Describe an experiment to show that dry soil contains air.

i. ……
……

ii. ……
……

iii. ……
……

**iv.** ……
……

**END*****

**ITEM 5**
**INTERGRATED SCIENCE**
*Time allowed: 2 Hours 15 minutes*

## SECTION A

## QUESTIONS 1 – 40 CARRY ONE MARK EACH

**111.** Why does a bedbug produce a very bad smell when it is touched?

……
……

**112.** Give any one way in which flowers are important to a plant.

……
……

**113.** Which deficiency disease in children has these sign and symptoms: Retarded growth, lack of appetite and paralysis?

……
……

**114.** Write one common characteristic which is in all insects?

……
……

**115.** Why does sugar disappear when it is mixed in water?

……
……

……
……

**116.** Which property of air is demonstrated when air is pumped into a ball and it becomes bigger?

……
……

**117.** How is the absence of iodine harmful to our health?

……
……

……
……

**118.** What is the importance of platelets in the body?

……
……

**119.** Give one reason why a farmer should keep records of daily weather?

……
……

……
……

**120.** Why is proper disposal of refuse important in a home?

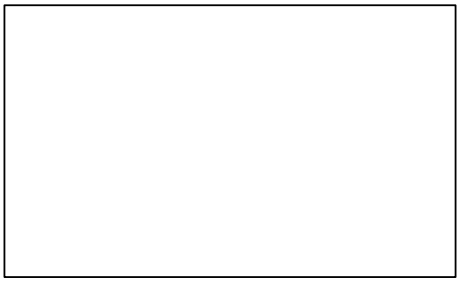
……
……

……
……

**121.** Which of the following animals: fish, frog, lizard, rat and a snail is warm blooded?

……
……

**122.** In the space provided below, draw a convex lense.



**123.** Why do you think that seeds of an orange are likely to be dispersed by a person?

……
……

……
……

**124.** When water is heated it changes into water vapour. What is this process called?

……
……

**125.** Name any one cereal which is used as food.

……
……

**126.** Why is it possible to control the spread of cattle disease in a paddock system?

……
……

……
……

**127.** Give any one reason why we should bathe with soap.

……
……

**128.** Write down any one main part of a flowering plant.

……
……

**129.** Give one reason why a farmer should practice plant training in a tomato garden.

……
……

……
……

**130.** Vultures, kites and crows were found feeding on a dead cow. What group of birds are these?

……
……

**131.** Give any one special characteristic of the air we breathe out?

……
……

**132.** What is the function of human skull in the human body?

……
……

**133.** Give one sign of a starved child.

……
……

**134.** Explain what ante-natal care is.

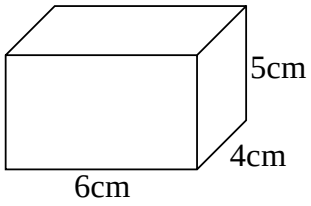
……
……

……
……

**135.** Apart from roughages, bacteria and water, give any one component of the human feacal matter.

……
……

**136.** The diagram below shows a chalk box. Find its volume.




**Study the animals given in list K and those in M. use it to answer question 27.**

**K: FISH, BIRD, FROG** **M: MAN, WHALE, BAT**

**137.** How are animals in list K similar to those in list M?

……
……

**138.** What is the source of energy in thermal electricity?

……
……

**139.** In terms of machine, how is the hammer similar to the human arm?

……
……

**140.** What should be done to a clinical thermometer before taking the temperature of a person?

……
……

**141.** How does a vent help to reduce smell in a VIP latrine?

……
……

……
……

**142.** What is one possible danger of buying drugs from local shops or markets?

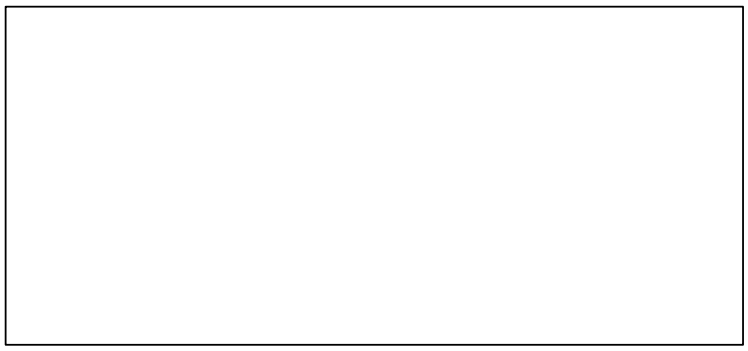
……
……

**143.** Why is budgeting in a family useful?

……
……

……
……

**144.** In the space below, draw a diagram to show self-pollination in a flower.



**145.** Which body system is commonly affected by polio?

……
……

**146.** State the first stage of soil formation from rocks.

……
……

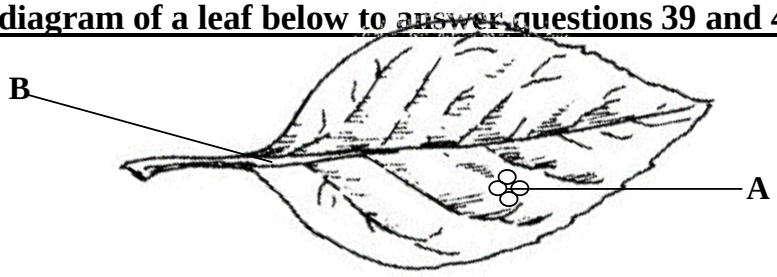
**147.** Apart from contour ploughing, strip cropping and mulching, give one other practice which is useful for soil conservation on a hilly ground.

……
……

**148.** What happens to the blood as it passes through the kidney?

……
……

**Use the diagram of a leaf below to answer questions 39 and 40.**




**149.** What is part marked B?

……
……

**150.** Give one of the functions of part A.

……
……

## SECTION B

**151.** (a) Which bone joins the pelvis and tibia?

……
……

(b) Explain briefly the following:

i. Voluntary muscles

……
……

ii. Involuntary muscles

……
……

(c) Give one use of muscles in the body.

……
……

**152.** (a) Name the bacteria that causes dysentery.

……
……

(b) How can one control dysentery without the use of drugs?

……
……

……
……

(c) Give any two signs of dysentery in people.

i. ……
……

ii. ……
……

**153.** (a) After it has rained, earthworms come out of their holes. Why do they come out?

……
……

……
……

(b) Give two reasons why an earthworm is very important to a farmer.

i. ……
……

ii. ……
……

(c) Why does a worm die if oil is poured on its body?

……
……

**154. Match items of group A with those of B by completing the table below:**

| **List A** | **List B** |
|---|---|
| **Heart** | **Urine** |
| **Kidney** | **Memory** |
| **Skin** | **Circulation of blood** |
| **Lung** | **Carbon dioxide** |
| **Brain** | **sensory organ** |

(a) Heart

……

……

(b) Kidney

……

……

(c) Skin

……

……

(d) Lung

……

……

(e) Brain

……

……

**155.** (a) Name the type of force which reduces the efficiency of a machine.

……

……

(b) State two advantages of the force named in question 45 (a) above.

i. ……

……

ii. ……

……

(c) How can you reduce the force you named in question 45 (a) above?

……

……

……

……

**156.** (a) How can you tell by looking at the roots, that a plant is a legume?

……

……

(b) Give any two examples of crops which are legumes.

i. ……ii. ……

(c) How do legumes increase the fertility of the soil?

……
……

……
……

**157.** (a) In which part of the plant does photosynthesis mainly take place?

……
……

(b) Name two raw materials which enable photosynthesis to take place?

i. ……

ii. ……

(c) Give the difference between photosynthesis and transpiration.

……
……

……
……

**158. Use the list of food stuffs given below and answer the following questions:**

**BEANS, RICE, CABBAGE, MILK, ORANGES**

(a) Give two food stuffs that are a source of proteins.

i. …….. ii. ……

(b) How are cabbages useful in one's diet?

……
……

(c) Why would you regard a list of the foods given above a balanced diet?

……
……

**159.** (a) what is a mixture of two or more metals?

……
……

(b) Give one example of a common mixture of metals.

……
……

(c) How does heat move from one point to another in a metal?

……
……

(d) Apart from painting, give any other method of preventing a metallic object from rusting.

……
……

**160.** (a) What are pollutants?

……
……

……
……

(b) Write any two sanitary diseases that can be prevented by proper use of the latrine and toilets.

i. …….. ii.
……

(c) Why are the wetlands described as the kidney of the earth?

……
……

……
……

**161.** State the role of the following in a food chain:

(a) Green plants

……
……

(b) A goat

……

……

(c) A pig

……

……

(d) Bacteria

……

……

**162.** (a) What is an electro-magnet?

……

……

……

……

(b) Mention any two ways of making an electro-magnet stronger.

i. ……

……

ii. ……

……

(c) How is a generator different from an electric motor?

……

……

……

……

**163.** State any 4 functions of blood in human body.

i. ……

……

ii. ……

……

iii. ……

……

iv. ……
……

**164. Below is a diagram of a clinical thermometer. Use it to answer questions that follow:**

(a) Name the parts labeled **Y** and **X**.

**Y**…… **X**
……

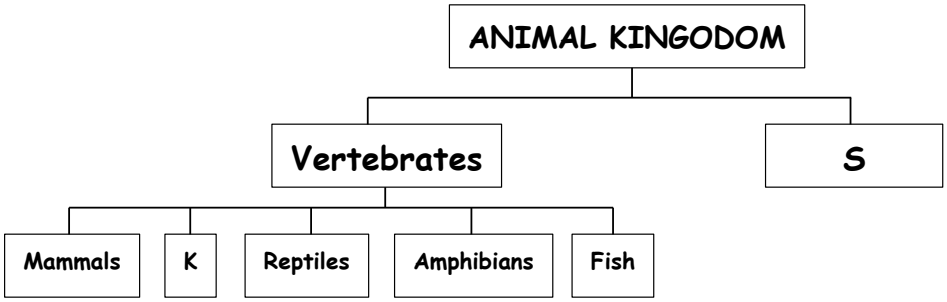
(b) Identify the importance of part marked **X**.

……
……

(c) Apart from the armpits and tongue, mention any one part of the body where the clinical thermometer can be placed.

……
……

**165. The table below shows the classification of animals. Use it to answer questions that follow.**




(a) Name the group of animals marked:

S …….. K
……

(b) Give one example of animals in each of the following groups.

i. Molluscs ……

ii. Arachnids ……

*****END*****

# ITEM 6
# INTERGRATED SCIENCE

*Time allowed: 2 Hours 15 minutes*

## SECTION A

## QUESTIONS 1 – 40 CARRY ONE MARK EACH

**166.** To which group of food crops does rice belong?

……
……

**167.** What waste product is excreted through the human skin?

……
……

**168.** In which chamber does oxygenated enter the heart?

……
……

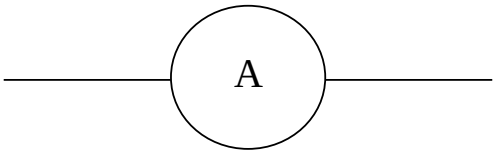
**169.** How can meat be preserved for a long time in rural area?

……
……

**170.** Apart from a tick, name any one other cattle pest in a livestock farm.

……
……

**171.** Use the diagram below to answer question 6.



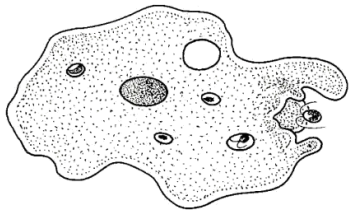

Name the electrical symbol shown.

……
……

**172.** How is marasmus different from kwashiorkor?

……
……

**The diagram below shows a microscopic organism. Use it to answer question 8.**



**173.** Name the disease caused by the germ shown in human.

……
……

**174.** Identity one disease in pigs which is caused by protozoa.

……
……

**175.** Give one use of plants in the water cycle.

……
……

**176.** To which group of simple machines does an axe belong?

……
……

**177.** State any one physical change which occurs in female adolescents but does not occur in the male ones.

……
……

**178.** When John looked into the plane mirror, he saw his face at the back of the mirror. How did his face get into the back of the mirror?

……
……

……
……

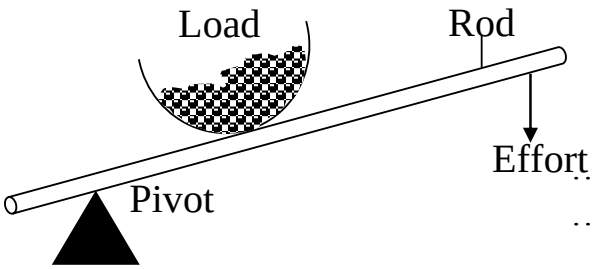
**179.** Apart from contour ploughing, strip cropping and mulching, give one other practice which is useful for soil conservation on a hilly ground.

……
……

**180.** State one way in which a spider is similar to a cockroach.

……
……

**181.** In the diagram below, what class of lever is represented?




……
……
……
…

**182.** What is the immediate result of fertilization in both plants and animals?

……
……

**183.** Why would animals in paddock system not easily be attacked by East coast fever?

……
……

**184.** Give a reason why a farmer should dig and plough the soil before planting the seeds?

……
……

**185.** What type of change occurs to an egg which has been in boiling water for more than ten minutes?

……
……

**186.** Metals are usually pointed to prevent them from rusting. How does this process help in stopping the metal from rusting?

……
……

**187.** If your friend accidentally pours hot milk on his/her hand, what first aid would you give to him/her?

……
……

**188.** Apart from being states of mater, in which way are liquids similar to gases?

……
……

**189.** Give one way in which a child can acquire immunity against a disease without being given a vaccine.

……
……

**190.** Sarah's friend is suffering from rickets. Mention any one advice you would give to Sarah's friend to overcome the disease.

……
……

**191.** Why is the skull an important part in the body?

……
……

**192.** How is heat transfer by conduction useful to a primary seven pupil?

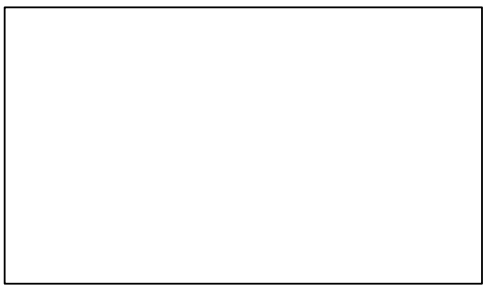
……
……

……
……

**193.** Besides, the type of soil, state one factor to consider when constructing a house.

……
……

**194.** In the space provided below, draw a simple diagram of a molar tooth.



**195.** How is the molar tooth drawn above adapted to its function?

……
……

**The diagram below shows a bee hive. Use it to answer questions 31 and 32 correctly.**

**196.** Name the type of bee hive drawn.

……
……

**197.** In which way is the modern bee hive better than the hive named in 31 above?

……
……

**198.** Give one example of a luminous object in the environment.

……
……

**Study the table below and use it to answer questions 34 – 37.**

| A snake | A bat | A bee | A frog |
|---|---|---|---|

**199.** Which of these animals is warm blooded?

……
……

**200.** Which one of these animals has no backbone?

……
……

**201.** Which one of these animals is an amphibian?

……
……

**202.** How is a bee different from other animals in the list?

……
……

**203.** Write in full ECOSAN.

……
……

**204.** How does a cassava plant obtain its food when its leaves have fallen off?

……
……

**205.** Why does the community need health education on immunisation?

……
……

## SECTION B

**206.** (a) What is the meaning of the term hard water?

……
……

(b) Give any one example of hard water.

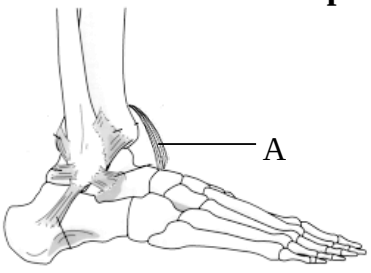
……
……

(c) State any two methods in which hard water can be made soft water for washing.

i. ……
……

ii. ……
……

**207. The diagram below shows an ankle of a person. Use it to answer the following question.**




(a) Name the part labelled A.

……
……

(b) Mike overstretched this part and tore it during an accident. What kind of injury did he get?

……
……

(c) What is the possible sign of the injury he got?

……
……

(d) Identify the first aid you would give to the above kind of injury.

……
……

**208.** Give a reason why our homes should have the following items.

(a) A rake

……
……

(b) A latrine

……
……

(c) A rubbish pit

……
……

(d) Mosquito nets

……
……

**209.** Match items is list A with those in list B.

| **List A** | **List B** |
|---|---|
| (a) Skull | Displacement of bone at a joint. |
| (b) Femur | Has immovable joint in the body. |
| (c) Dislocation | Protects the heart and lungs. |
| (d) Ribcage | The longest bone in the body. |

(a) Skull

……
……

(b) Femur

……
……

(c) Dislocation

……

……

(d) Ribcage

……

……

**210. Study the list of common crops below and use it to answer questions about them:**

| |
|---|
| Sorghum, coffee, peas, cotton |

(a) Which of the crops above is a perennial crop?

……

……

(b) Give a reason for your answer in (a) above.

……

……

(c) State the crop in the list with parallel leaf venation.

……

……

(d) Give one way we can care for our crops.

……

……

**211.** (a) Identify any two major features used to classify birds.

i. ……

……

ii. ……

……

(b) How is the streamlined body useful to eagles during flight?

……

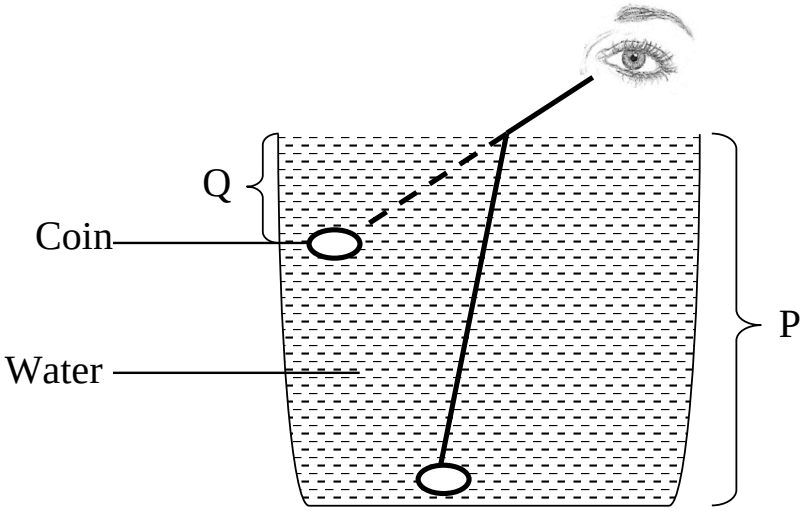
……

……

……

(c) In the space provided below, draw a diagram showing a beak of bird of prey.

**212. A coin was dropped in a basin full of water and the following was observed as in the diagram.**




(a) What does the diagram show about light?

……
……

(b) Name parts marked Q and P.

Q …… P
……

(c) State any one effect of refraction in our daily life.

……
……

**213.** (a) Identify two raw materials green plants use for producing starch.

i. ……
……

ii. ……
……

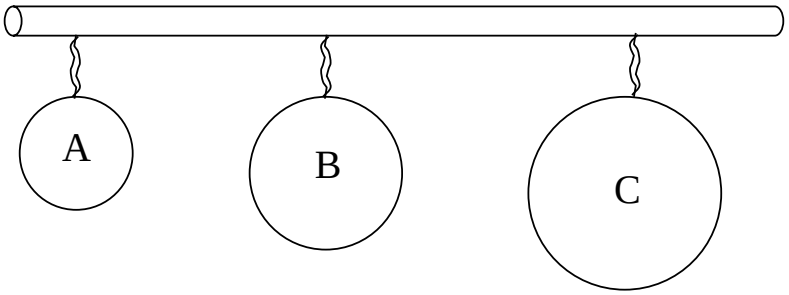
(b) Give the energy that plants use to aid photosynthesis.

……
……

(c) State the by-product animals directly gain from the process of photosynthesis.

……
……

**214. The diagram below shows three metallic rings A, B, C.**




(a) Which ring will produce;

i. sound of a lowest pitch?

……
……..

ii. sound of a highest pitch?

……
……

(b) How can sound be written and read?

……
……

(c) How are the vocal cords useful in sound production?

……
……

……
……

**215.** (a) Give any two advantages of pruning, citrus fruits.

i. ……
……

ii. ……
……

(b) Besides pollarding, name one other method of harvesting trees.

……
……

(c) How do trees purify air in the environment?

……
……

51.(a) How is heat different from temperature in the way they are measured?

……
……

……
……

(b) State any one way heat energy is useful to people.

……
……

(c) Convert 104°Fto ℃. (**2*marks***)

**216.** (a) Name the germ that causes AIDS.

……
……

(b) State any two ways AIDS can spread from an infected person to a healthy one.

i. ……
……

ii. ……
……

(c) How best can a P.7 child guard him/herself from AIDS?

……
……

**217.** (a) State the effects of alcohol on each of the following:

i. An individual

……

……

ii. A family

……

……

iii. A community

……

……

(b) Mention any one life skill that can enable a person to get rid of alcohol.

……

……

**218. Complete the table below correctly:**

| Vector | Germ | Disease |
|---|---|---|
| _____ | Chlamydia | Trachoma |
| Tsetse fly | Trypanosome | _____ |
| _____ | Bilharzia flukes | Bilharziasis |
| Female anopheles mosquito | _____ | Malaria |

**219.** (a) What is excretion?

……

……

(b) Give any one example of a nitrogenous compound.

……

……

(c) How is the skin similar to the kidneys in the way they function?

……

……

(d) Mention any one way lungs can be maintained in good working condition.

……

……

*****END*****