

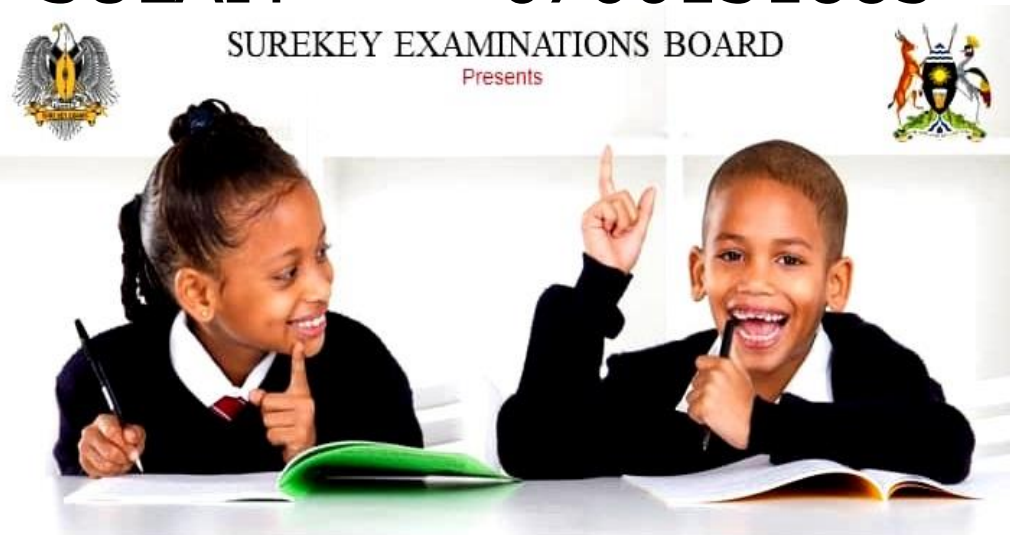
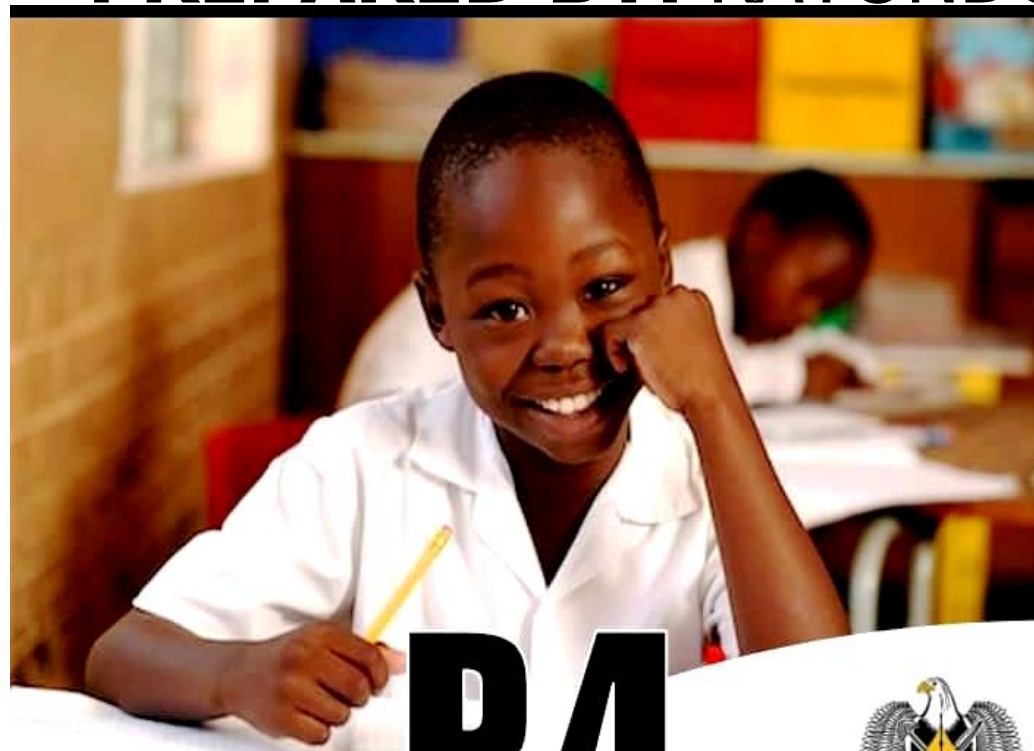


SUREKEY EXAMINATIONS BOARD
PRIMARY FIVE QUALITY CHECK THREE
2023

INTEGRATED SCIENCE
OFFICIAL MARKING GUIDE

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SUREKEY EXAMINATIONS BOARD
Presents



P.4



SUREKEY EXAMINATIONS BOARD

OFFICIAL COMMENCEMENT OF
LOWER PRIMARY
TRANSITIONAL
Examinations

2023 **October 16th – 19th**

Let Quality speak for itself

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P.4 **LOWER**
PRIMARY
TRANSITIONAL
Examinations

30,000/=
Online
Registration
Fee

2023 **October 16th – 19th**

The Surekey Lower Primary Certificate of Education (LPCE) Examination for the 2023 junior candidates will officially start on 16th October 2023.

THEME: "Preparing quality learners for Upper Primary"

Schools interested should register with Surekey Examinations Board before 5th June 2023. Online registration is also available at 20,000/= per junior candidate. For inquiries, contact 0700758668 / 0774088304 / 0755887056

Let Quality Speak for Itself

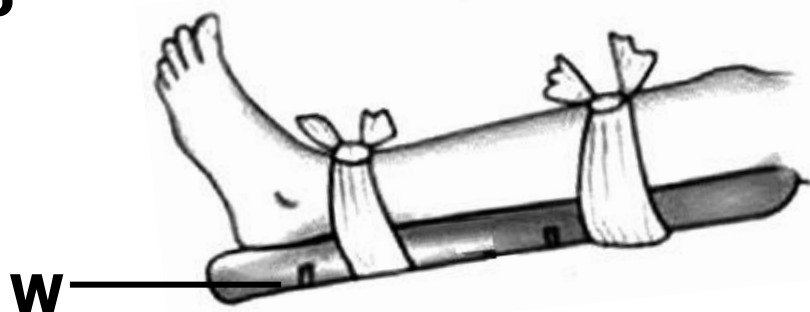
Visit: <https://surekeyexamination.com/> **TO REGISTER YOUR CHILD**

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SECTION A: 40 MARKS

1. Name the planting material for a carrot.
• **Seeds / Seed**
2. State any **one** advantage of keeping fingernails short.
• **It removes hiding places for germs**
• **It prevents skin injuries**
• **It removes dirt**
3. What piece of advice would you give a poultry farmer whose chicken lay soft shelled eggs?
• **To provide feeds to poultry rich in calcium**
4. What is the use of an axe at home?
• **For splitting firewood** (*Accept: cutting down big trees*)
5. Name the type of soil best for crop growing
• **Loam soil (Reject loamy soil)**

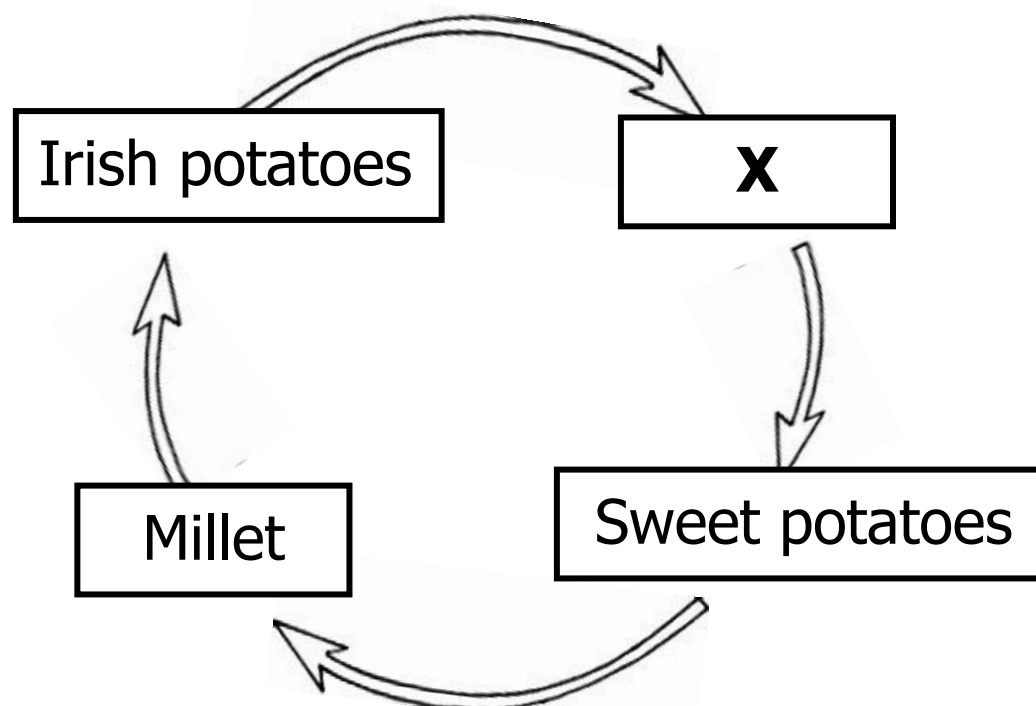
The diagram below shows a person with an injury. Use it to answer question **6**



6. How useful is the structure marked **W** to the injured person?
 - **The structure marked W keeps the fractured part in one position.**
7. Apart from pine, give any **one** other example coniferous plants.
 - **Cedar**
 - **Fir**
 - **Cypress**
 - **Podo**
8. Name any **one** animal that lives in water.
 - **Frog**
 - **Whale**
 - **Dolphin**
 - **Crocodile**
 - **Tilapia**
 - **Shark**
9. Give any **one** reason why people keep dogs in their homes.
 - **To provide security at home**
 - **Some keep dogs as pets**
10. Why do farmers provide shelter to transplanted seedlings in the garden?
 - **To prevent them from drying up / wilting**

11. Apart from smoking, give **one** other method of preserving of cassava.
 - **Sun drying // Refrigeration.** (*Reject: Roasting / drying*)
12. Why is it important for the family members to sleep under treated mosquito nets at night?
 - **To protect family members from mosquito bites**
13. How does upthrust force affect objects when put in water?
 - **It makes objects to weigh less in water**
14. State **one** habit which helps to reduce houseflies in an area.
 - **Proper disposal of rubbish**
 - **Proper disposal of human faeces and urine**
 - **Covering dustbins properly.**
 - **Spraying insecticides.**
15. State **one** use of soil to termites.
 - **Termites get their food from the soil**
 - **Soil is a home / habitat for termites.**
 - **Source of building materials.**
 - **For protection.**

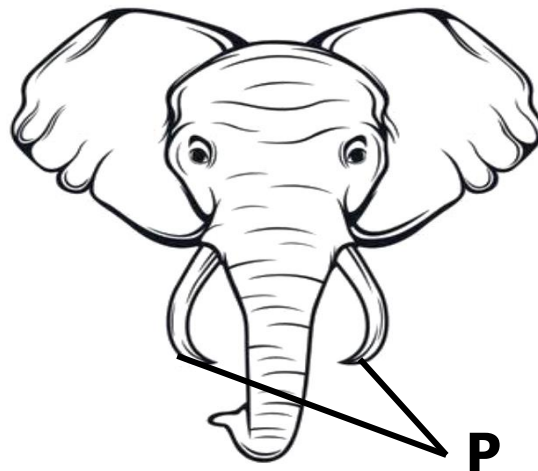
The diagram below shows a crop rotation cycle. Study it carefully and answer questions **16** and **17**.



16. Mention any **one** crop that can be included in the rotation cycle at part marked **X**.
 - **Beans**
 - **Peas**
 - **Groundnuts**
 - **Soyabeans (Reject: Legumes)**
17. Give a reason to support your answer you have mentioned in **16** above.
 - **The above crops add nitrates in the soil making it fertile**
 - **To improve on the soil fertility**
18. Name the non-infectious disease that affects the human eyes.
 - **Night blindness (Reject: River blindness)**

19. How is grass useful in rain formation?
• **Carry out transpiration which adds water vapour to the atmosphere.**
• **Through transpiration that helps in rain formation**
20. State any **one** method used to make water safe for drinking.
• **Boiling**
• **Chlorination**
• **Fluoridation**
• **Ultra violet filtration**
• **UV water purification**
21. Give any **oneway** in which a teacher in charge of health at school can identify whether P.5 children were immunized against tetanus or not.
• **By using a child immunisation card**
• **By checking an immunisation/injection scar on left upper thigh**

The diagram below is of a head of a wild animal. Study it carefully and answer question **22** and **23**.



22. Name the wild animal with such a head.
• **Elephant**
23. State the function of parts marked with letter **P** to the above animal.
• **Parts marked with letter P are used for protection**
24. Give any **one** effect of poor disposal of infant's faeces in the environment.
• **It leads to the outbreak of faecal / diarrhoeal diseases**
• **Leads to bad smell in the environment.**
• **Cause air and water pollution.**
• **Encourage the breeding of vectors and germs.**
25. Apart from the adult stage, at what stage of development is a butterfly active?
• **larva stage** (*Accept: caterpillars*)
26. Which component of air is added to the atmosphere during photosynthesis
• **Oxygen**
27. Give any **one** way of keeping the digestive system in good working conditions.
• **Having regular physical exercises**
• **Feeding on a balanced diet**

- **Drinking a lot of drinking water before or after a meal**
- **Having enough rest**
- **Proper chewing of food**
- **Feeding on food rich in roughage**
- **Avoid drinking too much alcohol**

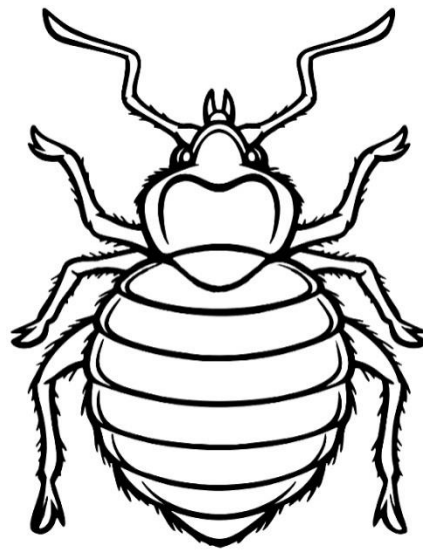
28. State **one** way in which a child gets immunity artificially.

- **Through immunisation**

29. Which type of weather makes people to put on light clothes?

- **Sunny weather**

The diagram below is of a common vector. Use it to answer question **30**.



30. Which disease does the above vector spreads to human beings?

- **Typhus fever**
- **Relapsing fever (Reject: Bubonic plague)**

31. Why should a person who has taken paraffin advised to take plenty of milk?

- **To dilute paraffin concentration**

32. What name is given to rearing of honey bees?

- **Apiculture**

33. Which part of the tooth detects coldness of ice cream?

- **Pulp cavity**

34. Name the type of germs that causes ringworm in humans.

- **Fungi**

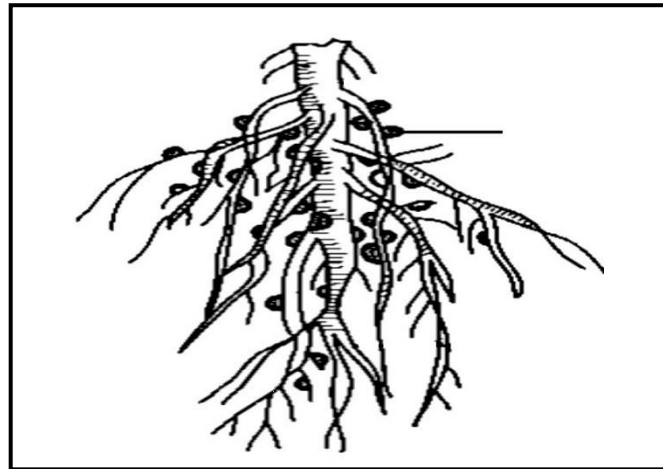
35. What class of food is digested in the mouth?

- **Carbohydrates (Reject: cooked starch)**

36. State any **one** disadvantage of mulching the garden.

- **It is tiring**
- **Mulches can easily catch fire**
- **Mulches hide some ground crop pests**
- **Some mulches can turn in to weeds if not dried properly.**

37. How is oil dangerous to soil?
- **Oil kills useful soil organisms**
 - **Oil hinders the movement of water in the soil**
 - **Oil hinders the movement / circulation of air in the soil**
38. In the space below, draw a simple diagram of a tap root system.



39. State the difference between mass and weight in terms of units.
- **Mass is measured in grams / kilograms yet weight is measured in Newtons**
40. How are lungs important to cows?
- **Lungs are used for breathing**

SECTION B: 60 MARKS

41. a) In which part of alimentary canal is digested food absorbed?
- **Ileum / small intestine**
- b) write down any **two** food substances that are absorbed in the part you have mentioned above in a).
- **Glucose**
 - **Fatty acids**
 - **Amino acids**
 - **Glycerols**
- c) Give any **one** characteristic that makes the part named in a) above to absorb digested food.
- **It is fairly coiled**
 - **It has many villi**
 - **It is supplied with dense network of blood capillaries**
42. a) Give the meaning of the term pollination.
- **Pollination is the transfer of pollen grains from anthers to the stigma of the flower on the plant**
- b) Mention any **two** birds that pollinate flowers.
- **Sunbirds**
 - **Humming birds**

c) How is pollination useful to plants?

- **It allows / promotes fertilisation in plants**

43. The diagram below shows a person suffering from a certain deficiency disease. Study it carefully and answer the questions that follow.



a) Name the deficiency disease a person is suffering from.

- **Goitre**

b) Give any **two** food stuffs that can be eaten to prevent the above deficiency disease.

- **Sea vegetables**
- **Salty water**
- **Iodised salt**

c) How can the above deficiency disease be controlled?

- **By feeding on food rich in iodine**
- **Feeding on balanced diet**

44. a) Apart from being sold for money, give **two** other reasons for keeping poultry at home.

- **For egg production**
- **For cultural purposes.**
- **For meat production**

b) Give any **two** advantages of rearing exotic breeds of chicken.

- **Exotic breeds of chicken mature and grow quickly**
- **Produce many eggs**
- **Have much meat**

45. a) Apart from staking, give any **two** other ways farmers care for their crops.

- **Mulching**
- **Manuring**
- **Thinning**
- **Spraying with pesticides**
- **Pruning**
- **Regular weeding**

- b) State any **two** importance of staking crops.
- **Prevents rotting of fruits**
 - **Prevents ground crop pests from attacking crops**
 - **Enables crops to get enough sunlight**
 - **Makes spraying easy** • **Makes harvesting easy**

46. A substance has volume 7cc and mass 63g.

- a) Find its density .

- Density = $\frac{\text{Mass}}{\text{Volume}}$

$$\text{Density} = \frac{63\text{g}}{7\text{cc}}$$

$$\text{Density} = \left[\frac{63}{7} \right] \text{g/cc}$$

$$\underline{\text{Density} = 9\text{g/cc}}$$

- b) What will be the behavior of a substance when put in water?
- **The substance will sink in water**
- c) Give a reason to support your answer in 46 b) above.
- **The substance is more dense than water OR its density is more than 1g/cc of water**

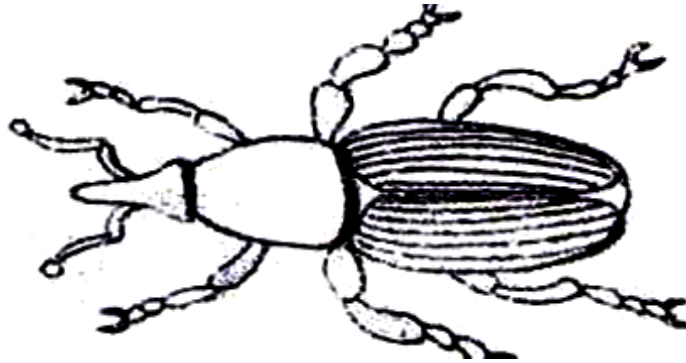
47. The diagram below shows a method of honey extraction. Study it carefully and answer the questions that follow.



- a) Name the method of extracting honey shown above.
 - **Pressing honey method**
 - b) State the importance of a clean piece of cloth in the above method of extracting honey.
 - **To allow clean honey to pass through it**
 - c) Mention **two** other methods of extracting honey.
 - **Contrifuging method / spinning method**
 - **Floating wax method**
 - **Solar melter method**
48. a) Give any **two** common diseases that affect rabbits.
- **Ear canker**
 - **Coccidiosis**
 - **Pneumonia**
 - **Colds**
 - **Scours**
 - **snuffles**
- b) State any **two** ways of controlling diseases you have given in 48 a) above.
- **Regular cleaning of the rabbit hutch**
 - **Proper ventilation of the hutch**
 - **Regular vaccination**
 - **Feeding rabbits on a balanced diet**
49. a) What is the use of a rain gauge at the weather station?
- **It is used for measuring the amount of rainfall received in an area**
- b) Give **two** reasons why people are advised to put a part of rain gauge raised 30cm above the ground.
- **To prevent flowing water from entering the rain gauge**
- c) In which units is rainfall measured?
- **Millimetres**
50. a) Mention any **two** examples of first aid materials that are kept in the first aid box.
- **Cotton wool** (*Reject: cotton*)
 - **Surgical spirit** (*Reject: spirit*)
 - **Razorblade**
 - **Bandage**
 - **Gauze**
 - **Plaster**
 - **Safety pins**
- b) Why can't a stretcher be kept in the first aid box?
- **The stretcher is bigger than a first aid box**

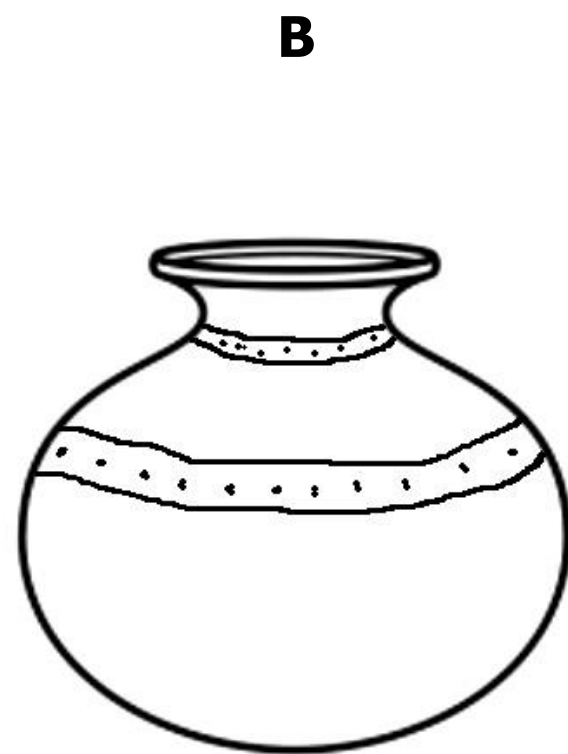
- c) Of what importance is a first aid box at home?
- **For proper keeping of first aid kit**
 - **To easily give first aid in case an accident occurs.**

51. The diagram below shows a maize crop pest. Use it to answer the questions that follow.



- a) Name the maize crop pest shown above.
- **Maize weevil**
- b) Which part of the maize crop is attacked by the above crop pest named in 51a) above?
- **Maize grains / corn**
- c) State any **two** ways of controlling the above crop pest in the garden
- **Regular cleaning of the store**
 - **Dusting the store with powered pesticides**
 - **Smearing maize grains with pesticides**
 - **Seed dressing.**
52. a) Name the germ that causes measles infants.
- **Virus / measles virus**
- b) Write down any **two** signs of measles in infants.
- **Red eyes**
 - **Skin rash**
 - **Runny nose**
- c) How best can measles be prevented in infants?
- **Through immunisation using measles vaccine**
53. a) Mention any **two** sense organs protected by the skull
- **Eyes**
 - **Tongue** (*Reject: brain*)
 - **Ears**
- b) Give any **two** ways people care for the above sense organs you have mentioned in 53a) above.
- **Feeding on a balanced diet**
 - **Reducing excess ear wax**
 - **Wearing sun glasses**
- (Note: The answers must be watching with the sense organs mentioned by the learner)*

54. a) Write down any **two** activities done to promote good sanitation in the school.
- **Sweeping away rubbish from the school compound**
 - **Mopping the classrooms**
 - **Scrubbing the floor**
 - **Removing cobwebs from the buildings**
 - **Disposing human wastes properly**
 - **Disposing rubbish properly**
 - **Slashing tall grass**
- b) Mention any **two** places in the school that are cleaned daily.
- **Latrines // Bathrooms // Classrooms // Dormitories**
 - **Kitchen // Dining rooms // Offices // Compound**
 - **Toilets// Sick bay.**
55. The diagrams below show products got from certain materials in the environment. Use them to answer the questions that follow.



- a) Name the material used to make the products **A** and **B** shown above.
- **A - wood**
 - **B - clay**
- b) State any **one** use of the above products at home.
- **A - used for sitting on / used as a seat.**
 - **B - used for keeping water for drinking.**
 - **Harvesting rain**

END

