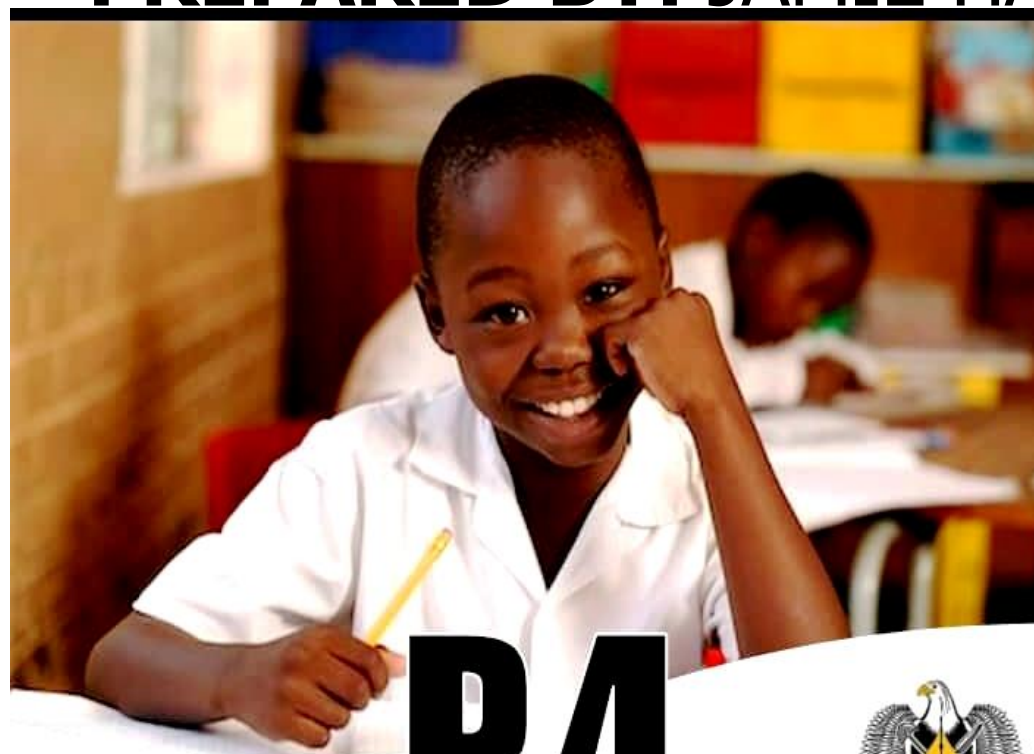




SUREKEY EXAMINATIONS BOARD
PRIMARY FOUR LPTE PREPARATION SET TWO
2023
INTEGRATED SCIENCE
OFFICIAL MARKING GUIDE

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SUREKEY EXAMINATIONS BOARD
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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

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SECTION A: 40 MARKS

1. Name the type of cloud that promotes plant growth
 - **Nimbus clouds**
2. Which animal product is used to make shoes?
 - **Skin /hide**
3. State any **one** characteristic of clay soil.
 - **Has small particles**
 - **Has small inter particle spaces**
 - **Has smooth particles**
 - **Has highest water capillarity**
 - **Sticky when wet**
 - **Poorly aerated**
 - **Has low water drainage**
4. Give any **one** way of caring for sick children at home.
 - **Bathing young children**
 - **Teaching children good health habits**
 - **Washing their clothes**
 - **Playing with children.**
 - **Feeding children well**
 - **Ironing their clothes and beddings**

The diagram below shows a message commonly found in the school compound. Use it to answer questions **5** and **6**.



5. Identify the programme that emphasizes the above message
 - **PIASCY**
6. How is the above message useful to school children?
 - **Protects them from contracting HIV/AIDS**
 - **Prevents them from getting early pregnancies.**
7. Write down any **one** activity done to conserve trees in the environment
 - **Fencing trees**
 - **Afforestation**
 - **Re-afforestation**
 - **Weeding**
 - **Setting up forest reserves**
 - **Controlling deforestation**
8. Give any **one** advantage of pruning crops in the garden.
 - **Reduce the weight of the plant.**
 - **Makes harvesting and weeding easy.**

- **Controls crop pests and diseases**
- **Reduces competition for space**
- **Enables crops to receive enough sunlight**
- **Improves on crop yields.**

9. Name the body organ that enables a primary four child to listen to the teacher during a lesson.

- **Ear**

10. How does a caterpillar benefit from its prickly hair?

- **For protection**

11. State any **one** agent of soil erosion.

- **Flowing water**
- **Moving animals**
- **Strong wind**

The diagram below shows a garden tool. Use it to answer questions **12** and **13**.



12. Name the garden tool above.

- **Forked hoe**

13. How is the above garden tool important to a crop farmer?

- **For digging in stony areas**

14. Why should water obtained from open wells be boiled before drinking it?

- **To kill germs in water**

15. State any **one** way in which a rabbit benefits from a bean plant.

- **Gets food**
- **Gets oxygen**

16. State any **one** way of reducing dust in the school compound.

- **Sweeping**
- **Putting pavers**
- **Scrubbing**
- **Sprinkling water**

17. What plant system does the radicle form when it grows?

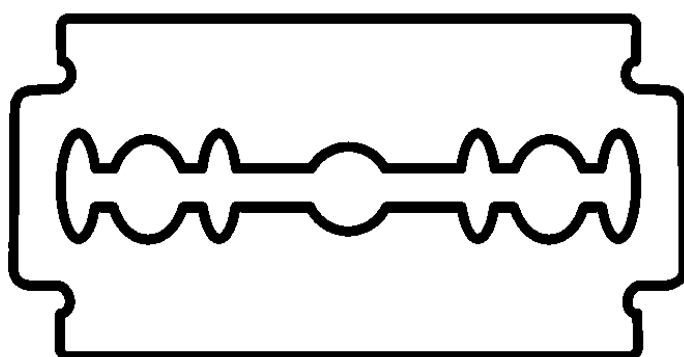
- **Root system**

18. How can germs be removed from hands after visiting a latrine?

Washing hands with clean water and soap.

19. Mention any **one** local method of keeping food safe for future use.
- **Sun-drying**
 - **Smoking**
 - **salting**
20. Name the gas contained in a fire extinguisher.
- **Carbon dioxide**
21. State any **one** role of children at home.
- **Fetching water and firewood**
 - **Cleaning the house**
 - **Looking after animals**
 - **Bathing siblings**
 - **Cleaning the compound.**
 - **Washing clothes**
 - **Cooking food**
22. How is the function of stomata in a leaf similar to that of gills in a fish?
- **Both are used for breathing**
23. State any **one** way of protecting domestic animals from diseases.
- **Proper feeding**
 - **Cleaning their shelter daily**
 - **Cleaning their feeding equipment daily**
 - **Regular vaccination of animals.**
 - **Providing clean feeds**

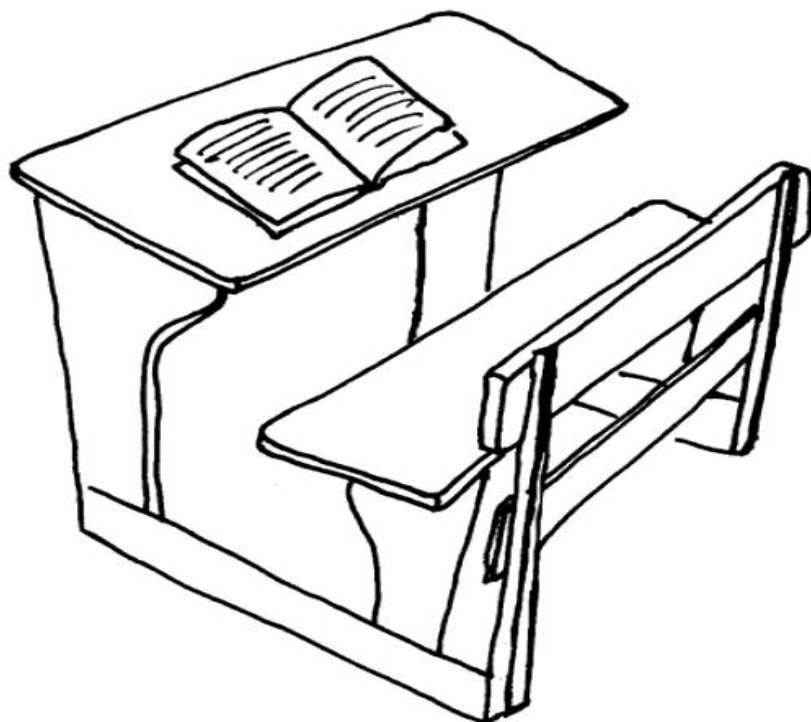
The diagram below shows an item used to promote personal hygiene. Study it and answer questions **24** and **25**.



24. Name the item used to promote personal hygiene above.
- **Razorblade**
25. Give any **one** way in which the above item helps to promote personal hygiene.
- **For grooming finger and toe nails**
 - **For shaving hair**
26. Write down any **one** cause of natural changes in the environment.
- **Floods**
 - **Drought**
 - **Landslides**
 - **Volcanic eruption**
27. How is a safety pin useful when giving first aid?
- **For stitching the bandage**

28. What happens to a fish when removed from water?
- **Dies**
29. Give any **one** way of controlling aphids in the garden.
- **Spraying pesticides**
 - **Early planting**
 - **Crop rotation**
 - **Uprooting the affected plants.**
 - **Using beetles to feed on aphids.**
30. How are rats similar to snakes in the way they live?
- **Both live in bushes/forests**
 - **Both are wild**
 - **Both live on their own**
31. Which component of soil is formed from animal wastes?
- **humus**
32. Give any **one** use of water in promoting sanitation.
- **Used for mopping**
 - **Used for scrubbing/washing**
 - **Flushing wastes in flush toilets.**
33. State any **one** way in which windy weather is useful to people.
- **Helps in winnowing**
 - **Helps in sailing boats**
 - **Helps in flying kites**
 - **Helps in drying clothes**
 - **Helps in running windmills.**
34. Give any **one** way of preventing germs from food.
- **Keeping food in clean containers**
 - **Preparing food from clean places**
 - **Serving food in clean containers**
 - **Washing hands before touching food**
 - **Proper covering of food.**
35. Which condition is prevented by painting metals?
- **Rusting**

The diagram below is of an item commonly found in the classroom. Study and use it to answer questions **36** and **37**.



36. Name any **one** source of raw material commonly used to make the above item.

- **Swamp**
- **Wetland**
- **Woodlot**
- **Jungle**
- **Mountains**
- **gardens**

(Reject wood/timber/metals/nail)

37. In which way is the above item useful to school children?

- **Used as a seat / For sitting at.**
- **For practical studies**
- **For placing the books or paper while writing.**
- **For keeping their scholastic materials.**

38. Give the meaning of the term environment.

- **The surrounding of a living thing / organism.**

39. Give any **one** effect of too much sunshine in an area.

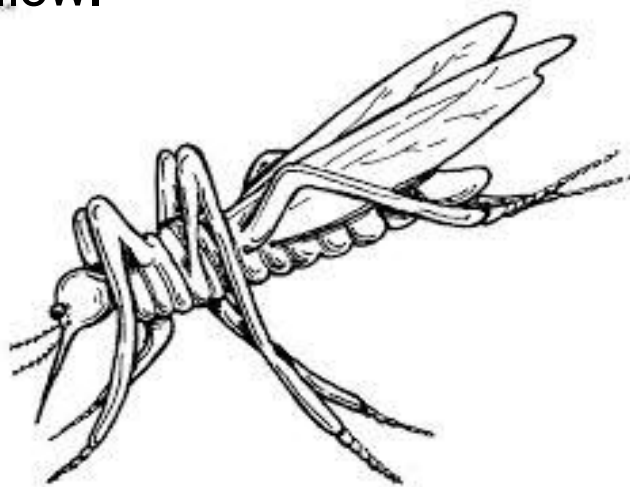
- **Spoils crops**
- **Dries up water sources**
- **Causes drought**
- **Kills some animals and plants**
- **Increases famine**
- **Makes soil hard for cultivation.**

40. In which **one** way is a cat useful at home?

- **Kills and eats rats.**
- **Controls the breeding of rats.**

SECTION B: 60 MARKS

41. The diagram below shows a disease vector. Study and use it to answer the questions that follow.



- (a) Identify the disease vector shown above.
- **mosquito**
- (b) Mention any **two** diseases spread by the vector shown above.
- **Malaria**
 - **Yellow fever**
 - **Elephantiasis**
 - **Filariasis**
 - **Dengue fever**
 - **Zika fever**
- (c) State any **one** way of controlling the above vector at home.
- **Draining still water.**
 - **Pouring oil in still water**
 - **Spraying insecticides**
 - **Sleeping under a treated mosquito net**
 - **Early closing of doors and windows**
 - **Keeping fish in ponds**
 - **Using mosquito repellents**
 - **Smoking coils.**
42. (a) Mention **two** parts of the seed that store food.
- **Cotyledon**
 - **Endosperm**
- (b) Give any **two** uses of seeds to people.
- **Some seeds are eaten.**
 - **Used for planting**
 - **Sold for money**
 - **Some seeds are used to make cooking oil.**
 - **For research**
 - **For practical studies**
43. (a) Name the weather instrument used to measure;
- (i) Humidity **hygrometer**
- (ii) Air pressure **barometer**
- (b) Mention any **two** elements of weather that supports plant growth.
- **Rainfall**
 - **Sunshine**
 - **Temperature**
 - **Wind**
- (Reject cloud cover)*

44. The diagram below shows part of the body. Study and use it to answer the questions that follow.



- (a) Name the parts labelled **A** and **C**.
- (i) **A- calf**
 - (ii) **C- heel**
- (b) How is part labelled **B** useful to a person while moving?
- **Helps a person’s leg to step firmly on the ground.**
- (c) State any **one** way of caring for the above part of the leg.
- **Washing**
 - **Massaging it.**
 - **Wearing clean sandals/shoes/ or stockings.**
 - **Scrubbing the sole to remove patches.**
 - **Wearing gumboots when working in dirty places.**
 - **Treating any injury on it early.**
 - **Applying Vaseline**
 - **Putting on clean clothes.**

45. The table below shows some components of the environment in part **A** and their uses in part **B**.

Part A : Components	Part B : Uses
Sun	Source of charcoal.
Lake	Source of water.
Rain	Source of fish.
Plants	Source of heat.

Match correctly the components with their uses in the spaces provided below.

- (i) Sun – **source of heat**
- (ii) Lake – **source of fish**
- (iii) Rain – **source of water**
- (iv) Plants – **source of charcoal**

46. (a) Mention any **two** materials that can be used to dispose wastes at home.

- **Latrines**
- **Toilets**
- **Rubbish pit**
- **Dustbins**
- **Potties**

(b) State any **two** dangers of poor disposal of wastes at home.

- **Causes outbreak of diarrhoeal diseases**
- **Causes water and air pollution**
- **Increases the breeding of vectors and germs.**

47. (a) Give any **two** elements of a balanced diet.

- **Proteins**
- **Carbohydrates**
- **Mineral salts**
- **Vitamins**
- **Fats and oils.**

(b) State any **two** importance of having a balance diet.

- **Promotes good health**
- **Prevents deficiency diseases**
- **Makes the body to grow well**

48. The picture below shows a method of harvesting crops. Study and use to answer the questions that follow.



- (a) Name the method of harvesting crops shown above.
- **Cutting**
- (b) Write down any **two** crops harvested using the above method.
- **Sugarcanes**
 - **Sorghum**
 - **Millet**
 - **Wheat**
 - **Rice**
 - **banana**
- (c) Apart from the above method, give any **one** other method of harvesting crops in the garden.
- **Handpicking**
 - **Plucking**
 - **Digging out**
 - **uprooting**

49. (a) Name the body sense detected by the;
- i) Ear – **sense of hearing/ hearing**
- ii) Nose - **sense of smell/smelling**
- (b) State any **two** ways of caring for the ear and the nose.
- **Washing them**
 - **Removing mucus from the nose**
 - **Removing excess wax from the ear**
 - **Avoid rough games**
 - **Scrubbing the ears**

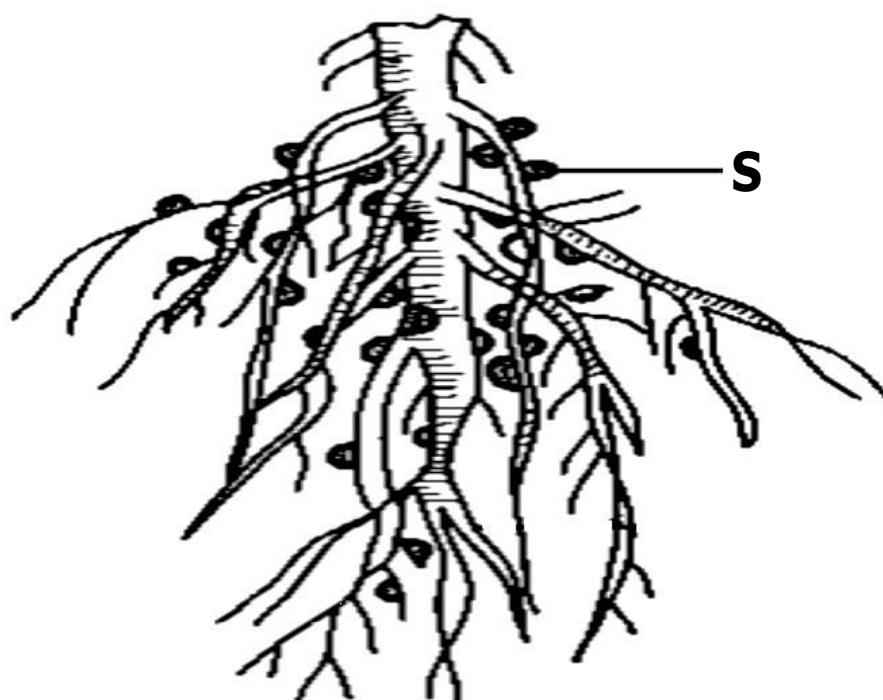
50. The table below shows a list of insects. Study and use it to answer the questions that follow.

E	F
Wasp	Housefly
Honey bee	Grasshopper
White ant	Bedbug
Termite	Flea

- (a) State any **one** characteristic common to all insects in the table above.
- **All have three main body divisions**
 - **All have three pairs of jointed legs**
 - **All breathe through spiracles.**
- (b) Identify any **one** insect from the table which has no wings.
- **Flea**
 - **bedbug**
 - **Termites**
- (c) Which list from the table above has insects that live and work together?
- **List E / E**

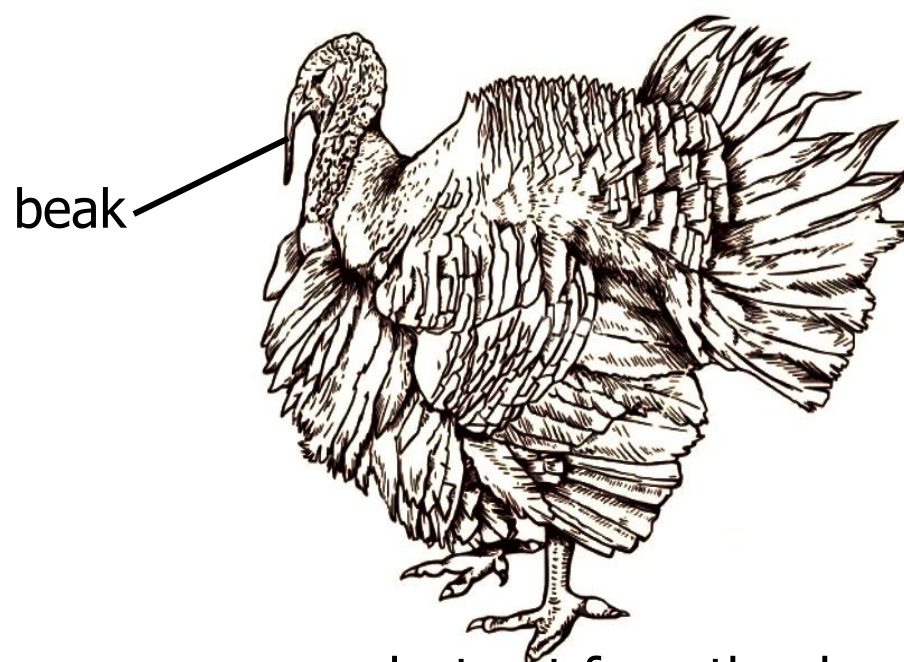
- (d) Why would you place a cockroach in list **F** on the table above?
- **A cockroach is a solitary insect.**

51. (a) Name any **two** parts on the human body that need to be kept clean.
- | | | |
|----------------|------------------|---------------|
| • Eyes | • Tongue | • Nose |
| • Skin | • Vagina | • Head |
| • Ears | • Penis | • legs |
| • Teeth | • Anus | |
| • Mouth | • Armpits | |
- (b) Mention any **one** disease that can break out when the body is not kept clean.
- | | |
|-------------------|-------------------------|
| • Scabies | • Athlete's foot |
| • Ringworm | • Tooth decay |
- (c) State any **one** way of preventing such a disease mentioned in (a) above.
- | | |
|-------------------------------------|---------------------------------------|
| • Regular bathing | • Regular combing of long hair |
| • Regular brushing of teeth | • Shaving overgrown hair. |
| • Regular washing of clothes | |
| • Regular ironing of clothes | |
52. The diagram below shows a type of root system. Study and use it to answer the questions that follow.



- (a) Identify the type of root system shown above.
- **Taproot system**
- (b) Give any **two** plants that grow the type of root system above.
- | | |
|---------------------------|---------------------------|
| • Beans | • Mango plants |
| • Peas | • Tomato plants |
| • Ground nuts | • Simsim plants |
| • Carrots | • Soya bean plants |
| • Jackfruits trees | • Orange plants |
- (c) How is the root structure marked **S** important to a plant?
- **store nitrogen fixing bacteria**

53. (a) Write down any **two** components of a fertile soil.
- **Presence of humus**
 - **Presence of enough water** (*moderate water drainage*)
 - **Presence of enough air** (*Good aeration*)
 - **Presence of soil organisms.**
 - **Presence of mineral salts.**
- (b) Give any **two** ways in which a mother can make use of sand soil a home.
- **For scrubbing metallic utensils e.g. saucepans**
 - **For filtering water**
 - **For building houses.**
 - **For making building blocks.**
54. (a) Name the component of the environment that;
- (i) Can cause landslide – **rain/rainfall**
- (ii) Can raise dust - **wind**
- (b) State any **two** characteristics of air.
- **Air exerts pressure**
 - **Air has weight**
 - **Air can be compressed**
 - **Air occupies space**
 - **Air moves things.**
- (Use mnemonic WECOM)
55. The diagram below shows a domestic bird. Study and use it to answer the questions that follow.



- (a) Name any **one** product got from the domestic bird shown above.
- **Meat**
 - **Feathers**
 - **Eggs** (*reject: droppings*)
- (b) How is the movement of the above bird different from that of a frog?
- **The above bird moves by flying or walking or running while a frog moves by leaping** (*Reject hopping*)
- (c) State any **one** way of caring for the domestic bird shown above.
- **Proper feeding**
 - **Regular vaccination**
 - **Regular cleaning of its shelter**
- (d) On the diagram above, label the beak.
- **(refer to the diagram)**

END