

SUREKEY EXAMINATIONS BOARD

PRIMARY SEVEN PLE PREPARATION SET ONE

2023

INTEGRATED SCIENCE

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SECTION A: 40 MARKS

Questions 1 to 40 carry one mark each

- 1. Name the human body organ that purifies blood.
 - √ the kidney/kidney
- 2. State any **one** chemical method used to control the spread of malaria among children.
 - √ Spraying using insecticides
 - ✓ Sleeping under a treated mosquito net.
 - ✓ Pouring oil in the stagnant water
 - √ Using mosquito repellants
 - √ Using mosquito coils

(Reject: other ways of controlling mosquitoes)

- 3. Which type of manure is got from rotten legumes?
 - √ green manure
- 4. Name the part of the digestive system that is affected by peptic ulcers.
 - √ the stomach
- 5. What is the function of the suckers on a tapeworm?
 - ✓ for attachment//for attaching//holding a tapeworm onto intestinal walls//provides extra attachment onto the intestinal walls (Reject: for sucking digested food)

The diagram below shows an animal. Use it to answer questions 6 and 7.



- 6. Name the group of mammals to which the above animal belongs.
 - √ carnivorous mammals//flesh eating mammals//preying mammals
 //carnivores
- 7. How is the feeding of the above animal similar to that of an eagle?
 - ✓ Both feed on flesh (meat) // Both the above animal and an eagle feed on meat.
- 8. Which nature of tools are affected by rusting?
 - √ metallic tools
- 9. State the property of air that enables a child to fly a kite.
 - ✓ Air exerts pressure

(Reject Air moves things/ Air can move)



- 10. State any **one** condition that can make planted seeds fail to germinate.
 - ✓ Rotten seeds

✓ Overstayed seeds

✓ Immature seeds

- ✓ Damaged seeds
- √ Lack of necessary conditions
- **✓ Seeds smeared with oil**

(Reject hard seed coat)

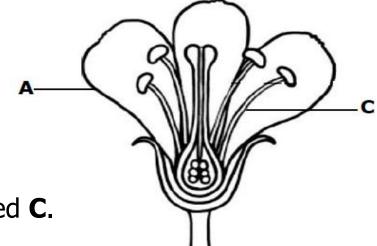
- 11. Give any **one** example of a deficiency disease that attacks the skeletal system.
 - √ rickets//scurvy
- 12. Give any **one** way in which the spread of bacterial diseases through food can be controlled.
 - ✓ Promoting food hygiene
 - ✓ Boiling water for drinking
 - ✓ Preserving food
 - √ Washing hands before eating food
- 13. Which method of heat transfer helps a smoker to light cigarette?
 - ✓ Convection (Reject conduction)
- 14. State any **one** characteristic of cereal crops.
 - ✓ Produce grains

- ✓ Are monocot plants
- ✓ Undergo hypogeal germination
- √ Store food in endosperm
- ✓ Are annual crops
- ✓ Leaves are parallel veined
- 15. Name the substance at the joint that lubricates bones.
 - √ Synovial fluid
- 16. Give any **one** way in which health parades are important at school.
 - ✓ Promote personal hygiene among pupils.
 - √ Educate pupils on ways of avoiding certain diseases.
 - √ Help the school health committee to identify common infections among pupils.
- 17. State any one advantage of keeping the rabbit hutches clean and dry.
 - √ Controls the outbreak of diseases among rabbits.
 - √ Controls the breeding of parasites.
 - √ Keeps the rabbits healthy
 - √ Reduces the costs of treating rabbits
- 18. How does a tsetse fly spread disease germs?
 - √ Through bites// By biting (Reject bitting)
- 19. State any **one** danger of self medication to human health.
 - √ Can lead to taking overdose.
 - √ Can lead to taking under dose.
 - ✓ It is a form of drug misuse.
 - ✓ Leads to treatment of a wrong disease.

- 20. Give any **one** life skill that children need to develop in order to safeguard themselves against sexually transmitted diseases (STDs).
 - ✓ Self esteem
 - ✓ Self-awareness
 - √ Coping with stress
 - ✓ Peer resistance

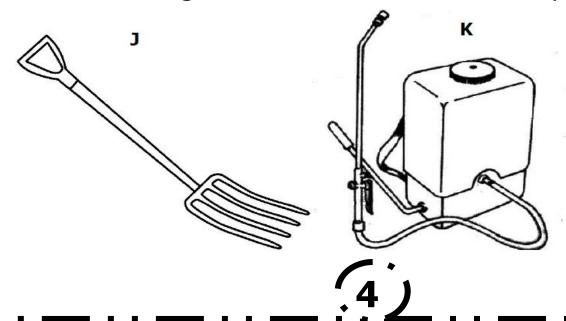
- ✓ Assertiveness
- ✓ Coping with emotions
- ✓ Decision making

The diagram below shows a flower. Use it to answer questions 21 and 22.



- 21. Name the part marked **C**.
 - **√** filament
- 22. How is part marked **A** able to attract worker bees to visit the flower?
 - √ Brightly coloured//Has bright colours
- 23. Give any **one** way of keeping the lungs in proper working condition.
 - ✓ Doing regular physical exercises
 - √ Feeding on a balanced diet
 - √ Keeping away from dusty places
 - ✓ Avoid smoking
- 24. How does calcium chloride make water safe for drinking?
 - √ Kills germs in water
- 25. Name the type of teeth that are well developed in mole rats.
 - ✓ Incisor teeth //incisors (Reject canines)
- 26. Apart from using spores, give **one** other way in which fungi reproduce.
 - √ By means of spores//sporulation
- 27. Why does a tilapia die when removed from water?
 - ✓ The tilapia lacks dissolved oxygen from water which it uses for breathing.
 - ✓ The muscular system of the mouth and operculum cannot work in air.

 The diagram below shows garden tools. Use it to answer questions 28 and 29.



- 28. Name the garden tool marked **K**.
 - √ Knapsack sprayer.
- 29. Write down any **one** activity in the garden done using the garden tool marked **J**.
 - √ mixing/ turning manure

✓ loading manure

- √ loading dug weeds
- 30. State any **one** characteristic of crustaceans.
 - √ They have hard crusty skin.
 - √ They have a pair of antennae on the head.
 - √ They breathe through gills.
 - √ They have more than four pairs of jointed legs.
 - ✓ Crustaceans have open circulatory system. Blood does not flow in a closed loop (no blood vessels).
- 31. Apart from using a fire extinguisher, state any **one** other way of putting out petrol fire.
 - √ Using fire blankets

- √ Using sand and dust
- 32. How do railway builders prevent the railway lines from bending?
 - ✓ Leave gaps between railway lines during construction.
- 33. Name the substance which worker bees use to repair damaged parts of the hive.
 - ✓ propolis//tree sap
- 34. How does the use of solar energy for cooking help to conserve trees?
 - ✓ Reduces the rate at which trees are cut down for wood fuel.

The diagram below shows a method of writing music. Use it to answer questions **35** and **36**.

C D E F G A B C 1 2 3 4 5 6 7 8/1 Doh Ray Me Fah Soh Lah Te Doh

- 35. Identify the method of writing music shown above.
 - ✓ solfa notation (Reject notation method/writing musical notes)
- 36. Give any **one** way in which music written by the above method can be reproduced.
 - ✓ Playing using a phone

✓ Playing using a DVD player

✓ Playing using a woofer

- ✓ Playing using a computer
- 37. Give any **one** reason why polythene bags should be properly disposed.
 - √ To prevent them from polluting the soil.
 - √ To prevent them from killing soil organisms.
 - √ To prevent them from blocking soil drainage
 - √ To prevent them from blocking aeration in the soil.
 - √ To prevent them from degrading the soil.
 - ✓ To prevent them from causing soil exhaustion.

- 38. How is lightning similar to nitrogen fixing bacteria in the way they improve soil fertility?
 - ✓ Both fix nitrates into the soil//Both convert atmospheric nitrogen into nitrates and fix them into the soil.
- 39. Give any **one** advantage of breast feeding to a baby.
 - √ Gets natural immunity
 - ✓ Breast milk is always at the right body temperature.
 - ✓ Breast milk does not get contaminated easily.
 - ✓ Breast milk provides antibodies to the baby's body
 - √ Breast milk is ever ready
 - √ It is a complete food for the baby.
 - ✓ Creates natural love between the baby and the mother.
 - √ Breast milk is always clean for the baby to take.
 - ✓ Breast milk helps jaws and milk to develop.
- 40. Name the biological change in plants that is similar to moulting in animals.
 - √ Shedding leaves / / Abscission

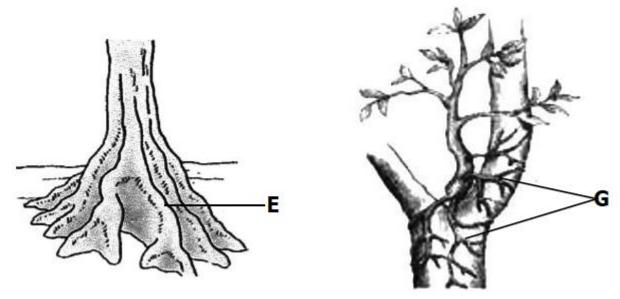
SECTION B: 60 MARKS

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

- 41. a) Mention any **two** changes of state of matter that take place in the absence of heat.
 - ✓ Condensation//freezing//deposition. (*Reject contraction*)
 - b) State any **one** characteristic of matter.
 - √ Has volume /occupies space
 - √ Has mass

√ Has weight

- √ Has shape
- **NOTE:** In defining matter, weight should not be included but among the properties, it is included.
 - c) Which force of attraction of matter enables the written work to stick on paper?
 - **✓ Adhesion** (Reject friction)
- 42. The diagram below shows types of roots. Study and use it to answer the questions that follow.



- a) Name the type of roots marked **E.**
 - √ Buttress roots
- b) How are roots marked **G** important to plants?
 - ✓ They enable plants with weak stems to climb others for support.//
 They are used for climbing.// They enable climbing plants to attach
 themselves to other plants.
- c) Write down any **one** plant that grows the type of roots marked **E**.

✓ Jack fruit

√ Silk cotton trees

✓ Mvule trees

✓ Mango trees

- d) In which way are roots marked **E** different from root hairs in terms of their function?
 - ✓ Roots marked E provide extra support to the plant while root hairs absorb water and mineral salts from the soil.
- 43. a) Apart from leaching, state any **two** factors that can make soil lose its fertility.
 - ✓ Monocropping

√ Soil erosion

- ✓ Over cultivation
- ✓ Over use of artificial fertilizers
- ✓ Dumping polythene bags in the soil
- b) In which way does leaching make the soil lose its fertility?
 - √ Makes plants nutrients to sink into deeper soil layersmaking roots unable to absorb them.
 - ✓ Leads to loss of plant nutrients from the top soil.
- c) Give any one method that a crop farmer can use to maintain soil fertility.
 - ✓ Applying manure

✓ Growing legumes

✓ Practising crop rotation

✓ Bush fallowing

✓ Mulching the garden

✓ Planting trees

- ✓ Applying artificial fertlisers in limited quantity.
- 44. a) Write down any two activities done under the child to child programme.
 - √ Teaching ways of preventing STDs and STIs.
 - ✓ Teaching young children how to brush teeth.
 - ✓ Teaching young children how to bathe.
 - ✓ Teaching young children toilet/latrine habits.
 - ✓ Caring for children who are sick.
 - ✓ Teaching young children how to wash their knickers and pants.
 - ✓ Teaching body changes during growth.
 - ✓ Ironing clothe for young children.
 - b) State any **two** ways in which child to child programme is important to school children.
 - ✓ Promotes personal hygiene.
 - ✓ Promotes proper care among children.
 - ✓ Controls outbreak of some diseases.

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- ✓ Promotes proper use of toilets/latrine by young children.
- 45 a) Name the disease in rabbits whose signs are bent ears, wounds in ears and itching ears.
 - **✓ Ear canker**
 - b) Give any one way in which the above disease affects a rabbit farmer.
 - ✓ Leads to death of rabbits.
- √ Causes losses to a farmer.
- ✓ Increases costs of treating rabbits.
- ✓ Reduces production rate of rabbits
- c) State any **two** ways of controlling the above disease in rabbits.
 - ✓ Use canker powder on wounds.
- ✓ Keep the hutch clean
- ✓ Clean the ears using paraffin and cotton.
- ✓ Do not overcrowd the rabbits in one hutch.
- ✓ Spray insecticides to kill ectoparasites.
- 46. a) Write down any **two** instruments used to measure the weight of an object.
 - ✓ Weighing stones

√ Beam balance

√ Weighing scale

✓ Weighing clock

✓ Spring balance

- √ Set of scales
- b) What determines the sinking or floating of an object?
 - ✓ density
- c) Why does the weight of an object increase when an object is in air?
 - √ More gravity is exerted on an object.
- 47. The diagram below shows an underground stem. Study and use it to answer the questions that follow.



- a) Identify the group of underground stem to which the above plant belongs. Stem tubers
- b) Name the parts marked **U** and **W**.
 - √ U scale leaf
 - √ W stem tuber
- c) How is the above plant propagated?
 - ✓ By planting the stem tuber
- 48. a) Where in the body does respiration take place?
 - ✓ In the body cells// Living body cells// Body tissues

- b) Name any **two** raw materials used by the human body for respiration.✓ Food/Glucose✓ Oxygen
- c) How do plants make use of the gas produced by animals during respiration? For photosynthesis/For making their own food
- 49 a) How are the following useful in the process of reproduction?
 - i) testes Produce sperms
 - Produce testosterone hormone
 - ii) ovaries -Produce ova.
 - -Produce progesterone and oestrogen hormones
 - b) In which part of the female reproductive system does each of the following take place?
 - √ fertilization oviduct/fallopian tube
 - √ implantation uterus /womb
- 50. a) Apart from yeast, write down any **two** other examples of fungi.
 - ✓ Toadstool//puffball//moulds//mushroom// bracket fungi//truffles
 - b) Give any **two** ways in which yeast is useful to people.
 - √ Used in brewing alcohol

✓ Used to flavor cheese

√ Used in baking bread

- √ Source of Vitamin B1.
- √ Used to ferment fruit juice to make wine
- 51. The diagram below shows a burning candle. Study and use it to answer the questions the follow.

- a) Name the part marked **M**.
 - ✓ Flame//Candle flame (Reject;light)
- b) What type of change takes place as the above candle melts?
 - **✓ Physical change** (*Reject melting*)
- c) State what would happen to part **M** when a container is covered On the above candle.
 - √ Would go off//Would stop burning// Would stop glowing
- d) Give a reason for your answer in (c) above.
 - ✓ Oxygen that supports burning would be cut off.
 - √ The container cuts off oxygen supply to the flame.

- 52. a) Name the system of keeping poultry where birds are allowed to look for their own food.
 - ✓ Free range system
 - b) Give any **two** advantages of the above system of keeping poultry.
 - ✓ It is cheap to manage.
 - ✓ It saves time.
 - ✓ Birds get a balanced diet.
 - √ Birds get enough body exercise.
 - √ Birds need little care.
 - ✓ It controls poultry vices.
 - Apart from the above system, name any one other system of keeping poultry.
 - √ Fold system//Pen system//Battery system// Cage system//
 - ✓ Deep litter system

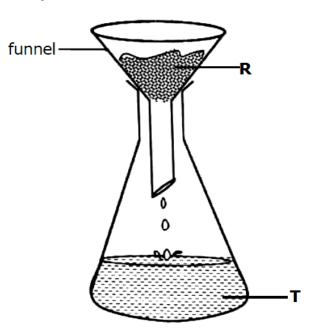
(Reject battery cage//Fold pen system)

- 53. a) Give any **two** examples of ectoparasites in cattle.
 - √ Ticks//Mites//tsetse fly
 - b) State any **one** effect of ectoparasites to cattle.
 - √ Suck blood from cattle causing anaemia
 - ✓ Spread diseases to cattle

- √ Cause pain to cattle
- ✓ Lower the quality of cattle products
- c) In which **one** way can ectoparasites be controlled in cattle?
 - √ Spraying acaricides

- **✓ Double fencing**
- **✓ Dipping cattle in acaricides**
- ✓ Deticking
- ✓ Practising paddock grazing
- 54. a) Give the difference in use between a rubbish pit and a pit latrine.
 - ✓ A rubbish pit is used for proper disposal of rubbish while a pit latrine is used for proper disposal of human wastes.
 - b) Why should a Ventilated Improved Pitlatrine (VIP) be left without a lid to the hole?
 - √ To allow free air circulation.
 - c) State any **two** ways in which proper use of latrines is important in the community.
 - ✓ Controls the outbreak of diarrhoeal diseases.
 - ✓ Controls bad smell in the environment.
 - √ Reduces the breeding of houseflies in an area.
 - ✓ Controls germ multiplication in an area.
 - ✓ Prevents pollution of air and water.

55. The diagram below shows a method of making water clean. Study and use it to answer the questions that follow.



- a) Identify the method of making water clean shown in the above diagram.
 ✓ **Filtration.** (*Reject filtering*)
- b) Name the substances marked **R** and **T**.
 - ✓ R residues
 - ✓ T filtrate
- c) Give any **one** other activity done at home using the above method.
 - ✓ Preparing local salt from plant ash.
 - ✓ Separating lemon// Orange// Passion fruit juice from seeds.
 - √ Separating tea leaves from tea.

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