

SUREKEY EXAMINATIONS BOARD

PRIMARY SEVEN PLACEMENT

2023

INTEGRATED SCIENCE MARKING GUIDE

PREPARED BY:

MR. MUBIRU SULAIMAN: 0700 758668

MR. JAMMIE HARMPHREY: 0757451425



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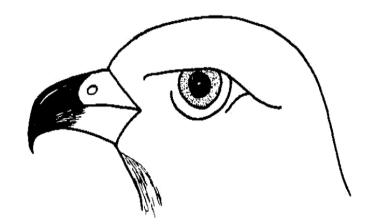
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SECTION A: 40 MARKS

Questions 1 to 40 carry one mark each

- 1. Name the gas used by leguminous plants to make proteins.
 - ✓ Nitrogen
- 2. State the vector that spreads elephantiasis to people.
 - ✓ Culex mosquito (Reject mosquito alone)
- 3. Which condition is caused by foreign bodies in the throat?
 - √ Choking (Reject chocking)
- 4. Name the group of crops that provide single harvests.
 - ✓ Annual crops
- 5. State any **one** way of controlling the spread of scabies among children.
 - ✓ Regular bathing / Washing clothes regularly/ Ironing clothes to kill itch mites / Avoid sharing clothes, basins and towels

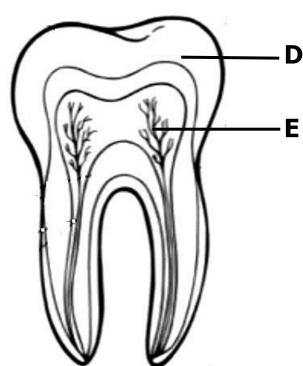
The diagram below is of a beak of a certain group of birds. Study and use it to answer question **6** and **7**.



- 6. Which group of birds have the above beak?
 - √ Scavenger birds
- 7. How are birds with such a beak dangerous to a poultry farmer?
 - √ They kill and eat chicks (Reject they kill and eat poultry)
- 8. Which type of manure is got from animal droppings?
 - √ Farmyard manure (Reject compost manure / natural manure)
- 9. Give any **one** role played by school children in promoting PIASCY Messages.
 - ✓ Design posters with PIASCY messages / educating fellow pupils about body changes at puberty / singing songs about PIASCY messages / Reciting poems about PIASCY messages / Dramatising about PIASCY messages

- 10. Apart from hearing, in which other way is the ear useful to a person?
 - √ For body balance (Reject for decoration / beauty)
- 11. State any **one** way in which propolis is important to worker bees.
 - √ For repairing the hive
 - √ For smoothing the hive
 - ✓ For waterproofing the hive
 - √ For trapping dust and germs
- 12. Which process in plants is similar to sweating in human beings?
 - ✓ Transpiration

The diagram below shows a molar tooth. Use it to answer questions **13** and **14**.

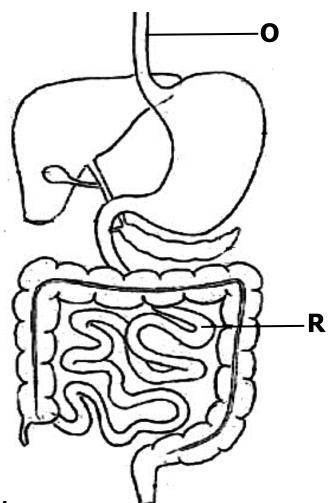


- 13. Name the part labelled **D**.
 - ✓ Dentine (Reject enamel)
- 14. Give the function of part marked **E** to the tooth.
 - ✓ Supplies nutrients to the tooth
 - √ Supplies oxygen to the tooth
- 15. How is a strip cup useful to cattle farmer?
 - √ It is used to detect the presence of mastitis in milk
- 16. Give **one** way of improving immunity in children.
 - √ Feeding them on a balanced diet
 - ✓ Prolonged breastfeeding babies
 - √ Taking babies for immunization
 - ✓ Providing enough food to babies
- 17. State any **one** danger of buying drugs from local shops.
 - ✓ One may buy expired drugs
 - ✓ One may buy contaminated drugs
 - ✓ The drugs may not be properly prescribed
 - ✓ The drugs may be poorly stored

- 18. What type of weather is suitable during planting crops?
 - √ Rainy weather (Reject rainy season)
- 19. Give any **one** natural factor that degrades the environment.
 - √ Floods
 - √ Landslides / Lightning / drought / earthquakes
- 20. Apart from eating food rich in iron, state any **one** other way of increasing the volume of blood in the body.
 - √ Through blood transfusion
 - √ Taking iron supplement tablets
 - ✓ Taking plenty of fruit juice and water regularly (Reject feeding on a balanced diet)
- 21. Which part of the fish is used for detecting sound waves in water?
 - ✓ Lateral line
- 22. State any **one** characteristic that shows that a grasshopper is an arthropod.
 - ✓ Has jointed legs / has a segmented body /
 Has exoskeleton.
- 23. Which breed of goats is mainly kept for mohair production?
 - ✓ Angora goats
- 24. Give any **one** condition that can lead to bottle feeding.
 - √ When the mother is HIV positive (has Aids)
 - √ When the mother dies
 - √ When the mother is very sick
 - √ When the mother has breast cancer
- 25. State any **one** way in which heat transfer by convection is useful to people.
 - √ Helps in boiling water
 - ✓ Rain formation
 - ✓ Removes bad smell from latrines
 - ✓ Drives smoke from the kitchen
- 26. Name the deficiency disease that causes gums to bleed.
 - **✓** Scurvy
- 27. Give any **one** way in which polythene bags cause soil exhaustion.
 - √ They prevent water from entering the soil
 - √ They limit soil aeration.
 - √ They kill soil organisms

- 28. State any **one** way in which doing regular physical exercises is important in the body.
 - √ Physical exercises increase body flexibility
 - √ Regular exercises reduce the level of fats in the body
 - ✓ Reduce body weight

The diagram below shows part of the digestive system. Study and use it to answer questions **29** and **30**.



- 29. Name the part marked **O**.
 - √ Gullet / Oesophagus / Esophagus
- 30. State any **one** way in which part marked R is able to absorb digested food.
 - ✓ It has villi
 - ✓ It is coiled
 - ✓ It is long
 - ✓ It has narrow lumens
 - ✓ It has a dense network of blood capillaries
- 31. Why is water called matter?
 - ✓ Has mass
 - √ Has volume
 - ✓ Occupies space (Reject has weight)
- 32. Which system of keeping poultry does not restrict the movement of birds?
 - ✓ Free rage system
 - ✓ Open rage system
- 33. What form of energy enables the eyes to function?
 - ✓ Light energy

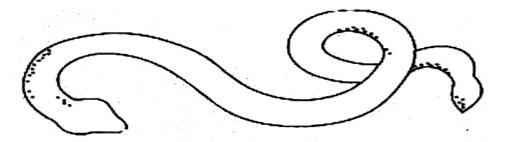
- 34. Give any **one** way in which seed dispersal is important in the environment.
 - √ Enables plants to colonise new areas
 - ✓ Prevents overcrowding of plants
 - ✓ Prevents plant extinction
- 35. Give any **one** reason why animals move from one place to another.
 - √ To look for food

√ To look for mates

√ To look for shelter

- √ To look for protection
- √ To look for young ones

The diagram below shows an intestinal worm. Use it to answer questions **37** and **38**.



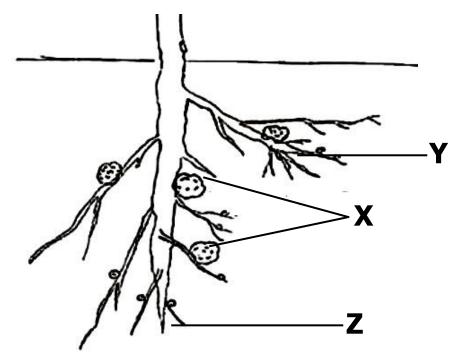
- 36. Identify the intestinal worm shown in the diagram above.
 - √ Hook worm
- 37. How is the feeding of the above worm different from that of a tapeworm?
 - √ The above worm feed on blood while tapeworm feeds on digested food
- 38. State any **one** factor to consider when sorting clothes for washing.
 - ✓ Colour of clothes / Level of dirt / Texture of clothes
- 39. Name any **one** bacterial disease that spreads through drinking contaminated water.
 - **✓ Tuberculosis**
- 40. Give any **one** life skill that safeguards school children against smoking.
 - ✓ Peer resistance
 - ✓ Self-awareness
 - ✓ Coping with stress
 - √ Critical thinking
 - ✓ Decision making

SECTION B: 60 MARKS

Questions 41 to 55 carry four marks each.

- 41. a) State any **two** ways in which vectors spread germs.
 - ✓ Through contaminating food
 - √ Through bites
 - √ Through use of their hairy body
 - ✓ Through vomiting on food
 - √ Through spitting on food
 - √ Through landing on food
 - b) Give any **two** ways of controlling insect vectors.
 - ✓ Drain stagnant water around the home to control malaria
 - **✓** Spraying insecticides in our rooms kills most insect vectors
 - ✓ Clear bushes near homes
 - ✓ Proper disposal of faeces in latrines
- 42. a) Give any **two** elements of Primary Health Care (PHC).
 - ✓ Water and sanitation
 - ✓ Immunisation
 - ✓ Community health education
 - √ Family planning
 - ✓ Personal hygiene
 - ✓ Accidents and first aid
 - √ Food hygiene and nutrition
 - b) State any **two** principles of Primary Health Care (PHC).
 - ✓ Total health for people
 - ✓ Equal care for everyone
 - ✓ Community participation
 - **✓ Equitable health services**
 - ✓ Starting with most urgent
 - ✓ Social acceptability
 - ✓ Affordable PHC services

43. The diagram below is of the root system. Study and use it to answer the questions that follow.



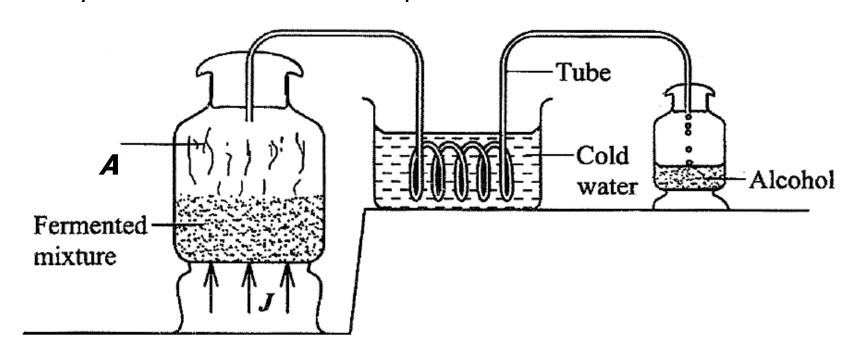
- a) Name the part marked **Z**.
 - ✓ Root cap
- b) Give the function of part marked Y to a plant.
 - ✓ Absorbs water and mineral salts from the soil for the plants
- c) Write down any **one** plant that has pat marked **X** on its roots.
 - ✓ Beans / ground nuts / soya beans / French beans/ peas.(Reject sim sim)
- d) What type of root system is shown above?
 - ✓ Taproot system
- 44. a) What type of changes form new permanent substances?
 - √ Chemical changes
 - b) Give any **one** characteristic of such changes.
 - **✓ Irreversible**
 - √ The weight of an object changes
 - c) Mention any **two** examples of such changes.
 - ✓ Burning / fermentation / rusting / decomposition / respiration
- 45. In the table below, part **A** shows terms commonly used in measurement and part **B** shows their meaning.

Part A: Terms.	Part B : Meanings
Mass	Force of gravity acting on an object
Volume	Mass per unit volume of a substance
Density	Quantity of matter an object contains
Weight	Amount of space an object occupies

7.8

Match correctly the terms with their meanings in the spaces provided below.

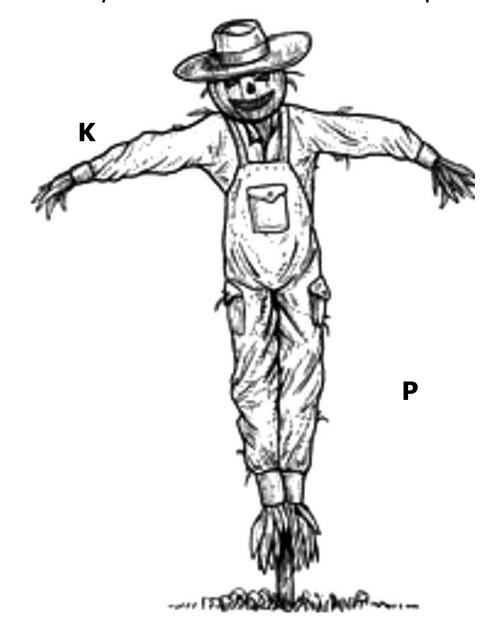
- i) Mass Quantity of matter an object containsii) Volume Amount of space an object occupies
- iii) Density Mass per unit volume of s substance
- iv) Weight Force of gravity acting on an object
- 46. a) Write down any **two** things that happen to air in the nose during inhation.
 - ✓ Air is warmed / moistened / filtered / cleaned
 - b) How are the following parts important to the trachea?
 - i) epiglottis. Closes the trachea during swallowing.
 - ii) rings of cartilage. Keep the trachea open all the time.
- 47. The diagram below shows a method of obtaining pure alcohol. Study carefully and use it to answer the questions that follow.



- a) Identify the method of making alcohol shown in the diagram above.
 - **✓ Distillation**
- b) Name the physical process that takes place at A.
 - ✓ Evaporation (Reject evapouration)
- c) State the importance of cold water in the above method of making alcohol.
 - √ To cool and condense alcohol vapour (Reject To cool the vapour)
- d) Give the reason why the delivery tube is coiled as shown in the diagram above.
 - √ To increase the surface area for condensation of alcohol vapour

- 48. a) Give the meaning of the term steaming up.
 - √ The feeding of a pregnant animal on highly nutritious diet before delivery
 - b) Identify the class of food used for steaming up cows.
 - **✓ Proteins**
 - c) State any **two** advantages of steaming up a cow before calving.
 - √ Stimulates milk production and letdown
 - ✓ Prepares the body of an in calf for calving
- 49. a) Apart from raising the hutch above the ground, write down any **two** other qualities of a good hutch.
 - √ Should be leak proof
 - ✓ Should have a well cemented floor
 - √ Should be built using a wire mesh
 - ✓ Should be strong enough (Reject should be clean / should be kept dry)
 - b) Why should the rabbit hutch be raised above the ground?
 - √ To prevent predators from attacking rabbits
 - √ To prevent dampness in the hutch
 - c) State any **one** way of controlling diseases in rabbits.
 - ✓ Regular sweeping of the hutch
 - ✓ Cleaning feeding equipment
 - ✓ Regular vaccination
 - ✓ Proper feeding of rabbits
 - ✓ Providing clean feeds
- 50. a) Give the meaning of the following terms.
 - i) <u>Puberty</u>
 - ✓ Puberty is the period of sexual maturity of a person
 - ii) <u>Adolescence</u>
 - ✓ Adolescence is the traditional period between childhood and adulthood
 - b) State any **two** secondary sex changes in male adolescents.
 - ✓ Growth of pubic hair and beards
 - ✓ Sweat glands become more active
 - √ The body becomes more muscular
 - √ The voice breaks and deepens

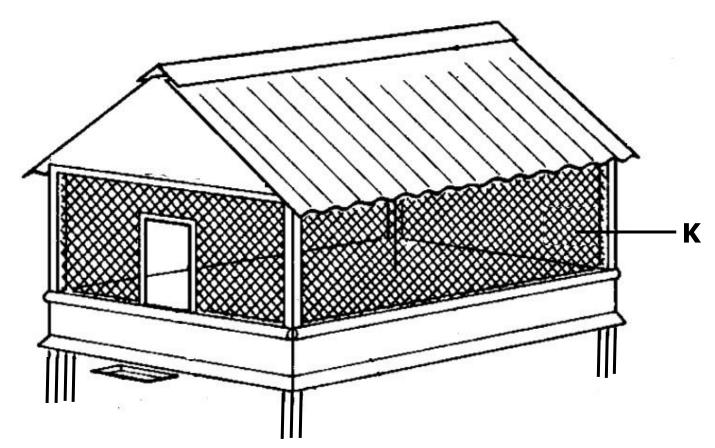
51. The diagram below shows a structure that is commonly put in the garden by crop farmers. Study and use it to answer the questions that follow.



- a) Name the structure shown in the diagram above.
 - ✓ Scare crow
- b) Why do crop farmers put the above structure in their gardens?✓ To chase / control some crop pests
- c) Mention any **one** local material that can be used to make the above structure.
 - ✓ Old clothes / banana fibres / ropes / strings
- d) What form of mechanical energy is possessed by the above structure when put in the garden?
 - ✓ Potential energy
- 52. a) Name any **two** examples of fungi.
 - ✓ Mushrooms / yeast / moulds
 - b) Give any **two** ways in which fungi are useful to people.
 - ✓ Mushrooms are eaten as food
 - ✓ Mushrooms are sold for money
 - √ Yeast is used in the baking of bread and cakes
 - √ Yeast is used in the production of alcohol

- 53. a) Apart from salting, mention any **two** other methods used to prevent meat from going bad.
 - √ Smoking / irradiation / refrigeration / freezing
 - b) In which way does salting prevent meat from going bad?
 - √ Salt dehydrates meat
 - ✓ Salt drains moisture from meat (Reject salting dehydrates meat)
 - c) Name any **one** element of a balanced diet.
 - ✓ Proteins / carbohydrates / vitamins / mineral salts / water / lipids (fats and oils)
- 54. a) State the main cause of fainting.
 - ✓ Reduced supply of oxygenated blood to the brain
 - ✓ Sudden drop in the blood pressure
 - c) Give any **two** conditions that can lead to fainting.
 - **✓ Prolonged hunger**
 - ✓ Long exposure to heat
 - √ Vigorous physical activity
 - ✓ Severe pain
 - **√Anxiety or excitement**
 - √ Shocking news
 - d) Why should the legs of a person who has fainted be raised slightly higher than the head?
 - ✓ To allow proper flow of oxygenated blood to the brain

55. The diagram below shows a system of keeping poultry. Study and use it to answer the questions that follow.



- a) Name the system of keeping poultry shown above.
 - **✓ Deep litter system**
- b) State any **one** reason why part marked **K** is used when constructing the above shown poultry house.
 - √ To allow proper air circulation in the coop
 - √ To allow enough light in to the coop
 - √ To control the entry of wild animals
- c) Give any **two** advantages of using the above system of keeping poultry.
 - √ Many birds are kept in a small space
 - ✓ Birds are protected from bad weather
 - ✓ Birds are protected from predators
 - **✓ Birds are protected from thieves**
 - √ Culling is easy
 - √ It is easy to collect manure
 - √ It is easy to collect eggs

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