

PLE PROPOSED MARKING GUIDE FOR SCIENCE - 2023

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SECTION A

- 1 Molar teeth
- 2 Timely weeding breaks the life cycle of crop pest
- 3 Sunshine
- 4 Pressing the belly helps to force out water from the lungs of the Victims
- 5 - Fish have gills for gaseous exchange in water  
- Fish have streamlined bodies to reduce friction in water when swimming
- 6 Castration // Milking // Artificial insemination // Spraying // Deworming // Numbering
- 7 The above structure prevents animals from running away  
The above structure limits movement of the animals
- 8 Lungs // The lungs
- 9 - Both fungi and animals feed on already made food  
- Both fungi and animals do not make their own food
- 10 Screen traps and kills houseflies that spread diarrhoeal diseases
- 11 To chew food properly before swallowing
- 12 Avoiding bad peer groups // Joining church choirs // Joining youth clubs // Reading information about dangers of smoking
- 13 Aluminium does not rust easily // Aluminium is common and cheap to buy // Aluminium is a good conductor of heat
- 14 Soap softens stains in clothes
- 15 Swamp drainage // Building houses in swampy areas
- 16 Diarrhoea // Loss of body weight // Coughing
- 17 Part labelled M lets in fresh air
- 18 - Clay help to conserve heat for a long time  
- Clay help to keep heat for a long time
- 19 Leads to competition for oxygen between animals and people in the house // Leads to easy spread of diseases among people // Leads to bad smell in the house
- 20 Use of biogas does not pollute the environment  
Use of biogas discourages deforestation in the environment



21. Opaque objects do not allow beam of light to pass through them.

- Opaque objects obstruct the beam of light
- Opaque objects block the light rays from forming a shadow

22. Bees wax is used ~~to~~ make candle wax

- Bees wax is used in <sup>the</sup> making of cosmetics like body creams
- Bees wax is used in the making of shoe polish
- Bees wax is used for making ~~wax~~ crayons used in painting
- Bees wax is used to make Varnish for furniture

23. To keep food for future use #

- To ensure food security
- To avoid wastage of food
- To prolong time in which it is useful
- For easy transportation
- For storage

24. Friction force // Frictional force

Force of gravity // Gravitational force

25. A mask helps to prevent the spread of droplet infection

A mask helps to prevent the spread of air borne disease

A mask helps ~~the person~~ to prevent a person from inhaling germs

26. Good Scent from a flower // Having nectar

27. By oiling and greasing the surface of simple garden tools

- By painting/coating simple garden tools
- By galvanizing simple garden tools
- By alloying simple garden tools
- By enameling simple garden tools
- By using tar on simple garden tools
- By keeping simple garden tools in dry places

28. Child Health Card helps ~~a~~ parent to know ~~when~~ the next dose will

be given // Child Health Card helps the parents to monitor the

growth of the ~~a~~ child // Child Health Card helps to remind the parent of the next date of visit for immunization

29. Size of Vibrating objects // Length of the string // Frequency //

Thickness or thinness of the Vibrating object // Surface tension // ~~Kind~~ // Temperature // Nature of the material



- 30 Teeth // Hair // Finger nails
- 31 - Screws like bolt and nut is used ~~for~~ to join things together
- Screws like drill is used in drilling machines
  - Screws like Vice clamp ~~are~~ <sup>is</sup> used by carpenters to hold pieces of wood together
  - Screws like screw car Jack ~~is~~ is used to lift heavy things
  - Screws like a spiral staircase makes movement upstairs easier.
- 32 - To enable poultry do physical exercises
- To keep poultry busy
  - To control boredom of poultry
- 33 Food smells badly // Taste of food.
- 34 A plastic pen will attract small pieces of paper due to frictional force // A plastic pen will attracts the pieces of paper
- 35 Part P provides electrical energy in the circuit.
- 36 A piece of glass does not allow electricity to pass through.
- 37 Ankles // Wrists.
- 38 Pruning <sup>eases</sup> ~~other~~ harvesting
- Pruning reduces the rate of transpiration
  - Pruning promotes proper growth of trees
  - Pruning controls pests by removing their hiding places
  - Pruning Reduces hiding places for pests
  - Pruning reduces competition for sunlight and air among plants
  - Pruning encourages branches to grow big and yield more
- 39 - Fencing around water sources
- Planting trees around water sources
  - Cleaning around the water sources
  - Sensitising people to ensure proper disposal of wastes
- 40 - HIV/AIDS destroys the white blood cells hence making the body less resistant to diseases
- HIV/AIDS ~~decreases~~ lowers the immunity of the person



## SECTION B

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41a) Rusting changes and spoils the colour of iron sheets

Rusting makes the iron sheets weak

Rusting makes the iron sheets to break easily

b) By galvanising iron sheets

By painting/coating the iron sheets

By enameling iron sheets

By alloying iron sheets

42a) Health record

b) East Coast Fever // Foot and mouth disease // Rinder pest disease // Heart water disease // Red water disease // Mastitis disease // Pneumonia disease

43a) Gully erosion

Reject: Sheet and Rill erosion

b) Soil erosion leads to soil exhaustion

- Soil erosion affects soil texture

- Soil erosion causes silting in rivers and lakes

- Soil erosion makes leaves the soil bare and hard making it difficult to dig

- Soil erosion causes blockage of drainage systems and irrigation channels

c) Deforestation leaves the soil bare hence exposing it to erosional agents

- Deforestation exposes the soil to agents of erosion

44a) Lateral bud // Bud // Axillary bud

b) Planting stem cuttings

Reject: By stem cutting

c) Both Part X of the Cassava plant and part Y of the Irish potato develops into shoot system

d) The tuber stores food for the Irish potato

45a) Vulnerable group of people are people who are easily harmed due to poor feeding

Reject: Vulnerable group of people are people who needs special care and attention



b. Babies // The elderly people // Sick people // Invalids //  
Weaning babies // Convalescent // Expectant mothers //  
Breast feeding mothers  
Reject! - Pregnant women

(C) - Preparing for them food // Giving them medicine at the right time  
- Feeding them on food rich in a balanced diet  
- Bathing the sick // Reminding the sick to take medicine  
- Showing the sick love // Washing for the sick clothes.  
- Taking the sick to the health centers for proper treatment  
- Reminding the sick to take medicine

46g. Measuring cylinder

b. The thread is used for lowering the irregular object gently in water  
(C) - Moses pour water in the overflow can up to the level of the spout  
- Moses puts the irregular object tied on a thread gently into the can  
- The water will overflow and pour into the measuring cylinder  
- Moses collects the water that pours out of the can in a measuring cylinder  
- Moses then finds the volume of the irregular object by reading the level of water in the cylinder.

47g. - Growth of pubic hair around the private parts

- Development of the breasts

- Widening of the hips // Enlargement of the hips

- Voice becomes soft and attractive

- Pimples appear on the face

- Sweat glands become more active.

Reject! Growth of pubic hair alone.

b. By avoiding bad peer groups // By abstaining from sex till marriage

- By providing sexual education to teenage boys

(C) - Regular cleaning of the reproductive system

- Feeding on food rich in a balanced diet

- Going for regular medical checkups

- By shaving pubic hair around the reproductive system.

Classic



48a, Swimming birds

(i) For paddling when swimming in water  
For swimming in water

(ii) For sieving food in water  
For sieving food in mud

(c) Duck

49a(i) - Teaches about proper ways of handling food  
- Enables people to know the importance of a balanced diet

(ii) - Reduces on the death of children below one year of age  
- Protects pregnant mothers from dying while giving birth  
- Ensures good health of the unborn babies

b, - Through newspapers  
- Through songs and poems  
~~- Through radio and story telling~~  
- Through play and story telling  
- Through radio and TV talk shows  
- Through community meetings and visits

50a, Broadcasting Reject! Broad casting

b, - Makes weeding easy // Makes harvesting easy // Makes spraying of maize easy // Allows proper spacing of maize // Avoids wastage of seeds // Enables the use of machines // Controls easy spread of pests and diseases

(c) Chemicals kill living organism in the soil

51a(i) Evaporation (ii) Condensation

b, To prevent alcohol vapour from escaping

c, Copper tube allows easy passage of alcohol vapour

52a, Easy spread of diseases // Inadequate food supply

- Poor sanitation // Poor water supply

b, Helps in proper planning for the people

Helps in proper provision of health services



53a. Plants provide oxygen to people  
Plants provide wood fuel to people  
Some plants are eaten as food  
Plants provide building materials to people

- b. By pruning plants  
By irrigating plants  
By weeding the garden with plants  
By applying fertilizers around plants

54a. Female anopheles mosquito feed on blood

- Female anopheles mosquito ~~feed~~ have proboscis for sucking blood from people
- Female anopheles mosquito bite people

b. i) Oil kills the larvae stage of female anopheles mosquito  
Oil suffocates the larvae stage of female anopheles mosquito

c) A mosquito net repels mosquito hence preventing mosquito bites

55a. White blood cells

b. i) W → Transports oxygen in the body

ii) X → Fights against disease causing germs in the body

c. Malaria // Sickle cell anaemia