



PLE INTEGRATED SCIENCE MARKING GUIDE 2023

Section A (40 Marks)

1. Molar teeth
2. It reduces the hiding places for pests/ it destroys the life cycle of pests.
3. Sunshine
4. To remove water from the lungs and stomach.
5. They have gills for breathing in water/ they have fins for swimming in water/ they are streamlined to reduce friction in water.
6. Vaccination/drenching/dosing/castration/dehorning/artificial insemination.
7. It restricts the movement of the animal/ it prevents the movement of the animal.
8. The lungs
9. Both fungi and animals feed on food made by other organisms/ both feed on other organisms.
10. The screen traps houseflies to death.
11. To chew food properly/ to eat small lumps of food/to avoid over eating/to always drink water after eating food.
12. By making right decisions/ by making your self busy/ by avoiding bad peer groups.
13. Aluminium is light/ aluminium is a good conductor of heat/ aluminium is cheap/aluminium does not rust.
14. Soap removes stains from clothes/it removes dirt from clothes/it weakens stains.
15. Swamp drainage/construction in wetlands.
16. Anaemia/vomiting/skin rash/fatigue/weakness/loss of appetite/diarrhoea.
17. To let in air that supports burning/for removing ash.

18. To retain heat/to conserve heat.
19. It leads to bad smell in the house/ animals contaminate utensils/it leads to easy spread of diseases.
20. The use of biogas reduces deforestation/ the use of biogas does not pollute the environment.
21. Shadows are formed/ light is obstructed and shadows are formed.
22. For making wax crayons/ for making varnish/for making shoe polish/for making paint.
23. For future use/To promote food security
24. Gravity force
25. The mask prevents air borne disease/it prevents dust from entering the lungs/it prevents smoke from damaging the lungs.
26. Good scent
27. By cleaning them after use/ by keeping them in dry places/ by repainting them/by oiling them.
28. It helps to know the next date of immunization/ it helps to monitor the growth of the child.
29. Frequency/tension/size of the vibrating surface/length of the vibrating string.
30. The teeth/mouth/hair/fingernails
31. They are used to fix things together/they are used to fasten wood and metals/used to hold things together/lids are used for closing tins and bottles.
32. To prevent boredom in poultry/ to keep poultry busy.
33. Bad smell/change in taste/change in colour/ growth of moulds on food.
34. The pen will pick the pieces of paper.
35. To produce electricity in a circuit.
36. A glass is an insulator/ a glass does not allow electricity to flow through it.
37. Ankle/wrist

38. It reduces hiding places for pests/ it reduces the weight of trees.
39. By fencing an open water source/by sensitizing learners about the dangers of polluting water sources/by enforcing strict laws about water pollution/by cleaning the water source.
40. Their immune system is weak/HIV weakens their immune system/HIV damages white blood cells.

SECTION B (60 Marks)

41. a) Rusting weakens iron sheets/rusting tears iron sheets/rusting changes the colour of iron sheets/it reduces the strength of the iron sheets/reduces the life span of iron sheets.
b) By painting iron sheets/By removing leaves from iron sheets/keeping away moisture(water) from the iron sheets/galvanizing/by oiling.
42. a) Health record
b) Brucellosis/ Mastitis/tuberculosis/rinder pest/foot and mouth disease.
c) It enables a farmer to get loans/ It helps a farmer to plan for his farm/ For future reference.
43. a) Gulley/gully erosion
b) Soil erosion causes soil exhaustion(infertility)/Soil erosion destroys crops.
c) Deforestation leaves the land bare and hence exposing it to agents of soil erosion/ Deforestation involves cutting down trees which leaves the land bare and exposing it to agents of soil erosion.
44. a) Node
b) Stem cutting
c) Both develop into a new leaf/plant.

- d) The tuber stores food for the new plant/it is used for propagation.
45. a) Vulnerable group of people are people who are easily harmed and need special care and diet.
b) Convalescent/babies/pregnant women/breast feeding women
c) By escorting them for medical care/by bathing them/by feeding them on a balanced diet/
46. a) Measuring cylinder
b) To hold the irregular object/For immersing the irregular object in water/for lowering the irregular object in an overflow can.
c) By pouring water in an overflow can and then lowering in the irregular object. The volume can be then read from the displaced water collected in a measuring cylinder.
47. a) Menstruation/ovulation/sweat glands become more active/growth of breasts/enlargement of hips.
b) By abstaining from sex/By avoiding bad peer groups/
c) By shaving/by performing physical exercise/by abstaining from sexual acts.
48. a) Swimming birds
b) Foot: It is webbed for paddling(swimming) in water.
Beak: It is spoon shaped for sieving food from water/It is flat and broad Shape for filtering food from water.
c) Duck/goose
49. a) Food and nutrition: It helps to prevent malnutritional diseases/Its encourages people to feed well.
Maternal and child health: It helps to reduce infant death/It reduces maternal death/It encourages pregnant women to go for antenatal care.
b) Through health fairs/Through music/through radios/through talk shows on televisions/through drama/through village health meetings/through school health programs/through community workshops and seminars.

50. a) Broad casting method
b) It creates space for crops to grow well/ It eases the harvesting of crops/It eases the spraying of crops.
c) Chemicals damage the lungs of a farmer/they can also cause skin irritations/Chemicals lower the market of crops.
51. a) R: Evaporation
S: Condensation
b) To prevent the alcohol from evaporating/To prevent the escape of vapour/It maintains the purity of alcohol/It prevents contamination of alcohol.
c) For transporting alcohol vapour to be condensed and condensed alcohol to the collecting container
52. a) Spread of diarrhoeal diseases/poor water supply/inadequate food/poor sanitation
b) It helps the government to know the diseases affecting people/It helps the government to know the immunization coverage/It helps the government to provide medicine and vaccines to hospitals
53. a) Plants are sources of food/they are sources of herbal medicine/they are sources of timber, wood fuel, fibre.
b) Through agroforestry/Through afforestation/through reafforestation/using energy saving stoves
54. a) It feeds on blood/ It has a proboscis for sucking blood.
b) i) It blocks oxygen supply to the larvae.
ii) It prevents mosquito bites.
55. a) X: White blood cells
b) W: To transport oxygen around the body.
X: To fight against disease causing germs.
c) Sick cell anaemia/anaemia/malaria