

PLE INTEGRATED SCIENCE MARKING GUIDE 2023 Section A (40 Marks)

- I. Molar teeth
- 2. It reduces the hiding places for pests/ it destroys the life cycle of pests.
- 3. Sunshine/rainfall
- 4. To remove water from the lungs and stomach.
- 5. They have gills for breathing in water/ they have fins for swimming 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.
- II. To chew food properly/ to eat small lumps of food/to avoid over eating.
- 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 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.
- 45. a) Vulnerable group of people are people who are easily harmed due to poor feeding 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 encouraging girls to abstain.
 - 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 /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) Sickle cell anaemia/anaemia/malaria