

ASSOCIATION OF CATHOLIC EDUCATION INSTITUTIONS (ACEI) – MASAKA DIOCESE
PRE-PLE EXAMINATION – 2024 INTEGRATED SCIENCE MARKING GUIDE

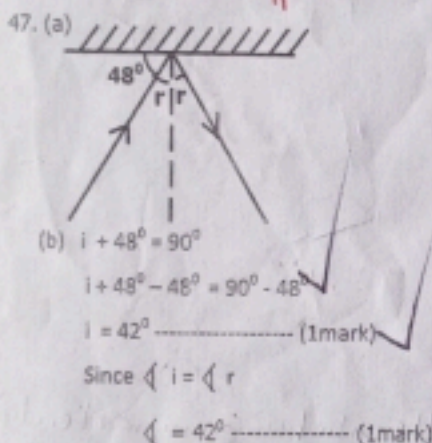
1. Nitrogen
2. Kidney
3. - It prevents mosquito bites
- Insecticides in treated mosquito nets kill mosquitoes.
4. By boiling // By treating it with chemicals
(chlorination/Fluoridation // By using UV light.
5. Convection currents (~~Reject Convection~~) // *Convectional current*
6. It kills germs in milk.
7. Spiny anteater (Echidna) // Duck billed platypus.
8. Fighting // stealing // abusing // *showing*
Others // bullying // Deception (telling lies)
9. Biological change.
10. It leads to soil exhaustion // It leads to death of soil organisms // pollutes soil // destroys the soil structure // *cause leaching // changes soil pH*
11. ~~Diphtheria~~ *Diphtheria*
12. Pine // cedar // Fir // ~~Podocarpus~~ *Podocarpus* cypress // ginkgo // red wood // spruce // *Podocarpus*
13. To prevent piglets from biting // *causing injury to the teats of the mother sow.*
14. By making bone surfaces slippery // It makes a joint slippery // *lubricates the bone // joint*
15. Fuse
16. It breaks the circuit in case of too much flow of Current // high voltage // excess flow of current.
17. Rusting adds iron to the soil // It reduces soil *reduces metal scrap: waste* pollution by breaking down scrap metals.
18. By extending piped water to the community // constructing boreholes // constructing valley dams // wells // protecting water sources from contamination and pollution // conserving wetlands // harvesting rain water // *Constructing salt traps*
19. BCG vaccine // Polio vaccines // Measles vaccine // Rota-virus vaccine // DPT vaccine // Hep B vaccine // Hib vaccine // PCV // HPV // Yellow fever vaccine // Moderna vaccine // Astrazeneca vaccine // Johnson and Johnson vaccine // *Pfizer* vaccine // Cholera vaccine // Mebendazole
20. Presence of Villi // Thin walls // dense network of blood capillaries // narrow lumen // fair length (it is long enough)
21. Plants // Animals.
22. Floating the wax method.
23. Fetching water // collecting firewood // sweeping the compound // mopping the house.
24. Through irrigation farming // watering crops // mulching // planting trees // practicing Agro-forestry.
25. Crab
26. Both use gills for breathing.
27. ~~Premolar teeth~~ // *Premolars - Molars*
28. Hand picking // sorting
29. It is a habitat // home for earthworms // source of food for earthworms // acts as a breeding place for earthworms.
30. To repair the worn out body tissues // replace worn out body cells.
31. Beef cattle.
32. Bacteria help in making yoghurt // making cheese // making butter // making biogas // making vaccines // making vinegar // making compost manure.
33. Through interviews // questionnaires // observations
34. Condensation helps in rain formation / water cycle.
35. It transports oxygen in the body.
36. Malaria.
37. Stored sound helps in entertainment // communication // protection // acts as evidence in courts of law // for remembrance.
38. Water and sanitation // control of diarrhoeal diseases. // *Control of communicable diseases*
39. Machines reduce the effort needed to do work (multiply force) // increase the speed of doing work // change the direction of force // change energy from one form to another.
40. Hooks attach the seeds of black jack on the bodies of animals.

SECTION: B

41. (a) Food chain
(b) (i) Grass (ii) Dog
(c) Bacteria help in decomposition // breakdown organic matter.
42. (i) The diaphragm and intercostals muscles relax.
(ii) The volume of the chest cavity reduces.
(iii) Air pressure inside increases // The lungs *contract*.
(iv) Air rushes out of the lungs.

43. (i) beef
(ii) mutton
(iii) pork
(iv) chevon
44. (a) Cassava // Sweet potato
(b) To enable tubers grow bigger // enlarge // To protect tubers from direct sunshine // To allow formation of tubers.
(c) By trapping pests // Using scare - crows // using dogs to chase away monkeys and squirrels // using cats to feed on rats // By fencing the garden // regular weeding.
45. (a) (i) R - melting
(ii) S - Evaporation
(b) Iodine crystals // dry ice (solid carbon dioxide) // Naphthalene // Moth balls // Sulphur // Sulfur //

46. (a) Amphibians
(b) Both reproduce by laying eggs // Both undergo internal fertilization.
(c) Whale // Porpoise // Dolphin // Dugong // Sea // Sea otter // Sea lion. //



- (c) Enables him/her to see objects // identify colours of objects // to use dressing mirrors.
48. (a) To promote personal hygiene // promote information and health education // promote child - to - child approach // to promote health and well - being among school children.
(b) Health prefect // science teacher // school nurse // food mess // sanitary prefect // school cleaners // school cook // senior woman // senior man.
(c) It organizes health parades // organizes general cleaning activities at school // reports any outbreak of diseases at school.

49. (a) Soil erosion // Soil leaching // Monocropping // Over cultivation // Prolonged use of artificial fertilizers.

- (b) Bush fallowing // Agro-forestry // Crop rotation.

50. (a) i) Carbohydrates

- ii) Proteins

- iii) Fats and oils // Fats // Lipids

- (b) Prevent constipation // *eases digestion // movement of food.*

51. (a) Decantation // *sedimentation method.*

- (b) For washing // Cooking food // Mopping houses

- // Watering crops // bathing

- (c) Filtration // *distillation.*

52. (a) Tar

- (b) To fit in peer groups of smokers // To feel warm

- // To concentrate on work // To break boredom.

- (c) Self esteem // self awareness // Proper decision

- making // critical thinking // Assertiveness.

53. (a) Ringworm // Athlete's foot // Jock itch // dho // *Cardiacs*

- (b) (i) Speeds up fermentation // *produces yeast / Eczena*

- (ii) Raises dough // leavens dough // *increases the volume of dough*

54. (a) Wedge

- (b) Wheel and axle

- (c) Levers

- (d) Inclined plane

55. (a) Natural immunity -

- (b) To prevent the spread of HIV to babies

- (c) Breast feeding delays the next pregnancy

- (d) When the mother is HIV positive // Mother dies

- // Mother stays far.

- When the mother produces little or no breast milk

- // when the mother has breast cancer.

END