

# THE PRIME PRE-PLT TRIAL SET II INTEGRATED SCIENCE MARKING GUIDE 2023


## Section A (40 Marks)

NO	ANSWER
1.	Paraffin/ jik/ diesel/ insecticides/ herbicides/ herbicides/ pesticides/ rat poison/ snake venom/ expired medicine
2.	For fight /they are used for flying.
3.	To allow wind to easily sweep off heat.
4.	A vacuum flask has silver walls to prevent heat loss by radiation/It has a vacuum which prevent heat loss by conduction and convection/It has a vacuum seal which prevent matter from entering the vacuum.
5.	Myriapods/Myriapoda
6.	To protect itself from enemies.
7.	Heat energy warms the environment /heat energy is used to dry clothes or harvested crops/Heat energy is used to preserve some food/Heat from the sun helps in information to rain through evaporation and transpiration.
8.	Machine milking.
9.	Leaves have broad shapes to allow absorption of sunlight and carbondioxide/ leaves have thin walls to allow carbondioxide to reach the cells/ most of the stomata are on the lower side to allow efficient exchange of gases.
10.	Yeast
11.	Echoes help pilot to avoid accidents by not crashing on hills and mountains.
12.	Sleeping under treated mosquito nets/Closing window in early evening /Using mosquito coils at night.
13.	Skin rashes/Red eyes/cough /Running nose.
14.	Eating clean food/Drinking clean water /Boiled water/ proper disposal of human wastes.
15.	Flat bones protect delicate body organs/ have red bone marrows for producing red blood cells.
16.	Septum muscle.
17.	Protozoa.
18.	To enable every patient access the drugs/To enable every person access the treatment.
19.	Grease fills up the rough moving parts of a bicycle hence making smooth/ grease lubricates the moving rough parts of a bicycle.
20.	Haemophilia
21.	A bull/ the bull/ bull
22.	Presence of water/ fertile soil/ sunlight.
23.	Crocodile
24.	Angora Rabbits provide fur to people/ for manure.
25.	The coiled filament burns to produce light/ resists electric pressure/ changes electric energy to heat and then light energy.
26.	To increase resistance to electric pressure.
27.	Poor family planning leads to lack of enough basic needs/Leads to lack of enough parental love
28.	Bathing regularly/Wearing clean clothes.
29.	Prevents water that helps in decomposition of organic matter to form soil/ it destroys soil structure.
30.	Dry leaves are less dense than water.
31.	Cannibalism/Egg eating/Feather pecking/Toe pecking.
32.	Moss plants reproduce by means of spores while conifers reproduce by means of seeds.
33.	Uric acid/ urea
34.	Eating clean food/Drinking boiled water/Chewing food properly before swallowing/Eating in time.
35.	Periodontal/ gingivitis/ teeth decay.
36.	To create space for more air.
37.	By covering septic tanks/By covering bath tabs /By draining all stagnant water around homes/Avoiding ponds near homes/By keeping containers like basin empty.
38.	It allows/ enables a baby to feed in absence of the mother/it enables the baby to feed when the mother is sick.
39.	Leads to blindness of the unborn baby.
40.	To pays bills/To pay school fees/To provide basic needs/provide security.

## Section B (60 Marks)

41. (a) A fuel is any substance that can be burnt to produce energy.  
 (b) Petroleum cannot be replaced natural after use.  
 (c) Soaking food before cooking/Covering food before cooking /Putting off fire after cooking/ Cooking much food at ago.



- (d) Wood fuel is available and cheaper to buy.
42. (a) Proteins/Carbohydrates/Vitamins/Mineral salts/Fats and oils/Roughages/Water.  
(b) To get energy/To repair the worn out tissues/To replace the worn out body cells/ To be health  
(c) Washing for them/Taking them for treatment.  
(d) Bathing regularly/ washing hands after using a toilet/ proper disposal of human wastes/ eating a balanced diet.
43. (a) Part M allows oxygen and water into the seed during germination.  
(b) Presence of moisture/ water.  
(c) The cotyledon turns into green/the cotyledon falls off  
(d) Seeds are used for planting in a new season/ sold to get money/ eaten as food.
44. (a) The mechanical advantage is 2  
(b) Mechanical advantage = 2
- $$MA = \frac{L}{E}$$
- $$2 = \frac{60}{E}$$
- $$E = 30 \text{ kgf}$$
- ( 3 marks)
45. (a) Ring worm/Scabies/ dhobi itch/ athletes foot.  
(b) To kill germs in our hands.  
(c) Bathing regularly/Brushing teeth/Ironing clothes/Cutting finger nails short/ Combing hair.
46. (a) VIP latrine/ ordinary pit latrine.  
(b) To prevent water contamination.  
(c) Cuts off fly entry in the latrine/ prevents flies from carrying human wastes from the toilet to food.
47. (a) A sieve.  
(b) A mixture of stones with seeds/A mixture of seed with dust/ a mixture of juice and seeds.  
(c) To allow out dust/To let down small stones/dust/soil.  
(d) It separates solid mixtures/ separates a mixture of passion juice and seeds/ separates fine sand and rocky sand.
48. (a) Lack of enough basic needs/Peer influence/Love for money.  
(b) It leads to decline in morals in the community/It leads to school drop outs.  
(c)Through counseling and guidance/By putting strict laws/Through sensitizing the community about the dangers of child prostitution.
49. (a) By using recommended chemicals  
(b) Distillation  
(c) Lacks mineral salts.  
(d) By fencing water sources/By cleaning containers before getting water from the source/Cleaning around water sources/Avoid taking animals to graze near water sources.
50. (a) **Castration**  
(b) It prevents in bleeding/it makes the goat grow bigger/It makes the goat grow faster.  
(c) By cross breeding/ selective breeding/ castration
51. (a) Tomatoes/ vanilla/ beans  
(b) Controls ground pests/ help plants to receive enough sunlight/ to prevent fruits from rotting on the ground.  
(c) Keeps them upright in the space hence preventing ground pests from reaching the fruits.
52. (i) **Ovary**- produces ova.  
(ii) **Ovum**- is a female reproductive cell.  
(iii) **Fallopian tube**- is where fertilization takes place.  
(iv) **Uterus** - is where implantation takes place.
53. (a)   
(b) It enables the driver to see a wide range area ahead of him.  
(c) It enables us to see objects in the environment /It is used by plants to make their own food/ helps the skin to make vitamin D
54. (a) Sand Soil  
(b) Sand soil has bigger air spaces.  
(c) sugar cane / rice/ cocoyams  
(d) Clay soil is sticky/It has fine particles which are sticky.
55. (a) Kwete/Maiwa/Waragi/Spirit/Beer.  
(b) Alcohol kills germs/ is a disinfectant.  
(c) To pass time/ to celebrate victory/ to show happiness/ to kill boredom/ to quench thirsty.