

THE PRIME MAGIC SET II INTEGRATED SCIENCE MARKING GUIDE 2024

Section A (40 Marks)

NO	ANSWER
1.	A flower
2.	Moles and squirrels use soil as their habitat.
3.	Sunshine.
4.	Oxygen/water/moisture.
5.	To prevent still birth/acquiring of AIDS/obstructed labour.
6.	Stroking by single touch/ stroking method.
7.	South pole.
8.	Itch mites cause scabies to people/ cause severe itching to the skin.
9.	Mulches prevent evaporation of moisture from the soil.
10.	The steam in the food condenses leading to breeding of bacteria.
11.	Hydrochloric acid kills germs found in food/ it stops the action of salivary amylase/ activates pepsinogen to pepsin.
12.	Drug prescription is the written information by the health worker on how to use a certain drug.
13.	Plants make their own food while animals feed on already made food.
14.	Blood plasma.
15.	Decaying matter provides necessary conditions for the hatching of eggs of houseflies/ houseflies feed on dead decaying matter/ decaying matter is a habitat for houseflies.
16.	Swamp drainage/ heavy rainfall/deforestation.
17.	By contour ploughing/ avoiding swamp drainage/ afforestation/ terracing/ constructing dams.
18.	To prevent near drowning/ drowning in case of any water accident.
19.	It can lead to eating of germs/ it can lead to poor teeth formation.
20.	Solar electricity does not produce smoke while firewood produces smoke which dirtens the saucepan/ solar electricity does not pollute the air while firewood pollutes the air.
21.	Personal hygiene.
22.	It does not protect against STIs/ it cannot be easily reserved.
23.	Bottle feeding.
24.	To enable the body to get enough time for producing antibodies/to enable the body to recover from the possible reaction from the previous vaccination before receiving another one.
25.	An echo.
26.	Echoes help sailors to determine the depth of waterbodies.
27.	The mouth does not contain cilia to trap germs/ dirt in the air/ it may lead to the chilling of the lungs/ It may lead to poor teeth formation.
28.	Enamel.
29.	It prevents the venom from reaching the heart.
30.	Timber seasoning prevents splitting/ warping/ cracking of timber.
31.	Queen excluder.
32.	Keeping rabbits in a hutch.
33.	To avoid poisoning.
34.	Rough fur/swollen abdomen/ loss of weight/ blood stained diarrhoea.
35.	Ball and socket joint.
36.	Shoulder/ hip.
37.	To help the eggs develop in the abdomen.
38.	Brushing teeth/ dental flossing/ rinsing the mouth.
39.	Clay lining conserves heat energy.
40.	To increase the surface area for food absorption.

Section B (60 Marks)

41. (a) Ecdysis enables reptiles to increase in body size/ ecdysis enables reptiles to get a new skin.
 (b) They are cold blooded vertebrates/ the moult/ they reproduce by laying eggs/ they undergo internal fertilisation.
 (c) Their skins are used in textile industries to make leather items.

43. (a) Free range grazing.
(b) Animals can easily get lost/ animals can destroy crops/ the animals can easily get diseases and parasites/ animals can be eaten by wild animals/ inbreeding is difficult to control/ it requires a large piece of land/ it can easily lead to over grazing.
(c) To prevent easy spread of diseases to healthy animals.
44. (a) They lose a lot of water.
(b) To replace the lost blood in their bodies.
(c) Dry mouth lips/ sunken eyes/ fontanelle/ less or no urine is passed out.
45. (a) animals/plants.
(b) Animals like oxen are used for ploughing the land/ some animals like the donkeys and camels are used for transport.
46. (a) Kwashiorkor - meat, chicken, soya beans.
(b) Marasmus - cassava, rice, posho.
(c) Scurvy - pawpaws, oranges, pineapples.
(d) Night blindness - carrots, green vegetables, mangoes.
47. a) Fainting.
b) Dizziness/ general body weakness/vomiting.
c) For free air circulation/ to be supplied by enough oxygen.
48. (a) Effects of refraction of light/refraction of light.
(b) It is due to refraction.
(c) It is refracted/it bends/ its speed reduces.
(d) Air and glass block have different optical densities.
49. (a) Human Immunodeficiency Virus.
(b) Alcoholism/ drug abuse/ rape/ defilement.
(c) Abstaining from sex/ abstinence.
50. (a) i) It stores food for the foetus.
ii) Transports food from the placenta to the foetus/ it transports wastes from the foetus to the placenta.
(b) Eating a balanced diet/ having regular body exercises.
51. Clear the land and dig deep to make the soil fine. Add manure in the nursery bed and mix it well with soil using a rake. Furrow the soil using a stick and plant the seeds. Cover the prepared area with light mulches, provide a shade and water.
52. (a) i) Solid state.
ii) gaseous state.
(b) Heat energy
(c) Using magnets.
53. (a) (i) **direct current electricity** - dry cells/wet cells/ simple cells/ chemical batteries.
(ii) **alternating current electricity** - generators/ solar cells.
(b) Transformer.
(c) Hydroelectricity.
54. (a) Boiling/ treating using recommended chemicals.
(b) Leads to contamination of water.
(c) Fencing water sources/ avoid letting animals drink from water sources.
55. (a) Lever.
(b) Friction force/ gravitational force.
(c) Bottle openers/ wheel barrows/pincers/ a crow bar/ a water pump/a nut cracker/fishing rod/table knife/tweezers.

(d)

