



$$\begin{array}{l|l} M.A = \frac{L}{E} & \frac{2}{1} = \frac{50}{E} \\ \hline \frac{2}{1} = \frac{50}{E} & E = 25\text{kg} \\ 2 \times E = 50 & \end{array}$$

1. -To trap dust and other foreign bodies entering the nose.
-To filter air breathed in.
2. polio
3. A cockroach has no back bone
4. -By using alternatives like paper bags.
-By recycling polythene bags
5. In the ileum
6. Feeling sense
7. Liquid P
8. Chlorophyll traps sunlight energy during photosynthesis.
9. Diffusion
10. moon, plane mirrors, planets
11. Thermal expansion
12. oxygen, moisture/water
- 13.



14. By animals
15. Vitamin A
16. A sprain is a torn or a stretched ligament while a strain is a torn or stretched tendon.
17. Single movable pulley
- 18.

19. Through bathing regularly
Through brushing teeth regularly
Through cutting finger nails short.
Through washing hands before eating food
Through washing clothes regularly
Through washing beddings regularly
Through combing hair daily
Through ironing clothes
Through trimming hair short, etc
- 20.

$$\begin{array}{l} (0^{\circ}\text{F} - 32) \times \frac{5}{9} = 0^{\circ}\text{C} \\ (149 - 32) \times \frac{5}{9} = 0^{\circ}\text{C} \\ 117 \times \frac{5}{9} = 0^{\circ}\text{C} \\ 13 \times 5 = 0^{\circ}\text{C} \\ 65 = 0^{\circ}\text{C} \\ \therefore 149^{\circ}\text{F} = 65^{\circ}\text{C} \end{array}$$

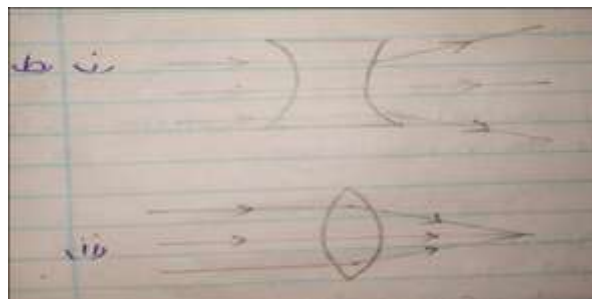
21. Through crossbreeding his local breads with the exotic breads.
22. Displacement method
23. Polio vaccine, DPT vaccine, HePB vaccine
24. Viviparous animals are animals which produce by giving birth to their youngones alive while oviparous animals are animals that produce by means of laying eggs
25. Liver
26. Cowdung, peelings
27. The eardrum vibrates sound waves while Eustachian tube balances air pressure between the ear and atmospheric pressure.
28. Dairy cattle
29. Both are magnetic substance
30. River blindness

31. Human Immunodeficiency Virus
32. Gravitational force/ force of gravity
33. I will advise Yokosan to use a rain gauge to measure the amount of rainfall received in his home area
34. wolframite/ wolfram
35. Sex deviations are abnormal sexual practices
36. The principle of reflection of light states that when light rays falls on the smooth surface the angle of incidence is equal to the angle of reflection.
37. To overcome viscosity friction during flight
38. They are used by submarines to see without exposing themselves to enemies
39. Cotton, flax, sisal ,jute, hemp
40. Through writing notes in solfa and staff notations.
Through recording

SECTION B

41. **a)** This is the period of sexual maturity where in life a boy or a girl is able to reproduce.
b) Muscular body, enlargement of the sex organs, breast development in girls, growth of pubic hair and armpit hair, menstruation begins in females, production of sperms and experiencing wet dreams.
c) Adolescent becomes interested in the opposite sex.
-They always want freedom
--They always want to be recognized and seen as mature
-They form peer groups
42. **a)** Through bites of infected female anopheles mosquito
b) Fish eats larva stages of mosquitoes hence reducing the spread of malaria
c) Through contaminated air, drinking contaminated water, through vector bites / insect bites, through skin contact with an infected person,

- through sexual intercourse with an infected person, through touching contaminated surfaces
43. **a)** (i)concave lens (ii)convex lens
b)



44. **a)** Breast feeding is feeding a baby on breast milk produce by the mammary gland.
b)-Breast feeding can delay the next pregnancy
-Breast feeding is cheap
-Breast feeding is time saving and available
-Breast feeding improves on the health of the mother
-Breast feeding creates love between the mother and the baby
c) Iron
45. Food chain
b) (i)Grasshopper (ii)Bacteria
c)-Some animals provide security to others eg dogs.
-Some animals help to eat vectors that spread diseases.
-Some animals are kept as pets.
-Some animals provide labour like ploughing and transport
- 46.

Vector	Diseases
<u>Housefly</u>	Cholera
Water snail	<u>Bilharziasis /schistosomiasis</u>
<u>Tsetsefly</u>	Sleeping sickness
Blackfly	<u>River blindness</u>

47. a) Pests
 b) Rats, squirrels, aphids, armyworms, leaf hopper
 c) Spraying weeds using herbicides, mulching, weeding regularly
48. a) septum
 b) ventricles
 c) Arteries
 d) Hepatic portal vein
49. a) sand soil
 b) water retention capacity
 c) soil type C
 d) weathering of rocks
 -decomposition of organic matter
- 50.
- b) The skin stores excess fats
 -The skin is a sensory organ for feeling
 -The skin protects the body against germ infection and dust
 -The skin makes vitamin D using sunlight
 -The skin regulates body temperature
 c) herpes zoster, chicken pox, measles, warts, shingles
54. a) Amylase, maltase, lipase, proteases, sucrose, rennin, ptyalin
 b) i) mouth ii) stomach
55. a) stigma
 b) Y- fruit
 Z- seeds
 c) A fruit is a mature fertilized ovary while a seed is a mature fertilized ovule.

$$\begin{array}{l}
 L \times L \cdot A = E \times E \cdot A \\
 80 \times 3 = 60 \times x \\
 240 = 60x \\
 \frac{240}{60} = \frac{60x}{60} \\
 4m = x \\
 x = 4m
 \end{array}$$

Babirye will sit from the fulcrum in order to balance the sea saw

51. a) These are drugs used to by people to meet their common health problems
 b) Marijuana/Njaga/Bhang, opium, tobacco, mirra, cocain, alcohol
 c) Expiry
52. a) burning rusting, etc
 b) growth, development, birth, germination, moulting, etc
53. a) Lactic acid ,excess mineral salts, urea, excess water