

YEAR 2014 ANSWERS

SECTION A

1. (a). A hammer is used because it is hard and metallic
(b). A saw is used because it is sharp
2. (a). Through digging drainages
(b). It breeds mosquitoes
3. (a). Oblique object
(b). The sun
4. (a). Teacher's guidance
(b). $= 90^\circ - 50^\circ = 40^\circ$
5. (a). When the earth obstructs light from the sun
(b). Umbra is the darkest part of the shadow
6. (a). Charcoal
(b). It is highly flammable
7. Electrical energy, heat energy, light energy
8. (a). A metal is a good conductor of heat but a non-metal is not.
(b). Copper is a good conductor of electricity
9. (a). Oxygen
(b). Carbon dioxide
10. (a). its density is higher than that of water
(b). Relative density is the ratio of mass of a substance to that of water.
11. Teacher's guidance
12. (a). Convection
(b). Mercury
13. Teacher's guidance
14. (a). To regulate current
(b). Cables are good conductors of electricity
15. For lighting, for running electric machines
16. You may be electrocuted
17. (a). When a stone is dropped in water, sound is heard (concentric waves)

- (b). When in a hall and noise is made, sound reaches the wall and bounces back in form of an echo
18. (a). Yes
(b). Sound can be stored on cassettes, magnetic discs (CDs)
19. Less effort is used to carry heavy weights, it overcomes friction
20. A tap
21. (a). It contains chemicals and germs
(b). Through boiling the water
(c). Bilharzia
22. Teacher's guidance
23. (a). A magnet is a piece of metal that attracts other magnetic substances.
(b). It follows the principle of a freely suspended magnet with points north and south directions.
24. Teacher's guidance
25. In lifting heavy magnetic materials, used in industries to separate iron filings from other materials

SECTION B

26. Lung cancer, whooping cough, bronchitis
27. (a). For protection against diseases, for body building, for provision of energy
(b). Breast milk
28. (a). Epigeal germination, hypogeal germination
(b). Oxygen, water and warmth
29. (a). Family B
(b). Vitamins and minerals
(c). Family D
30. Plants breathe out oxygen which animals breathe in and animals breathe out carbon

- dioxide which plants breathe in.
31. A cockroach undergoes incomplete metamorphosis (3 stages) but a housefly undergoes a complete metamorphosis (4 stages).
32. Man breathes through the lungs while an insect breathes through spiracles.
33. (a). The all lay eggs
(b). Mammals
(c). They are both cold blooded animals
34. (a). X-Pancreas, Y-ileum, W-liver
(b). Absorption of digested foods
(c). It produces insulin that regulates sugars in the body
35. (a). Abstaining from sex, avoid sharing sharp piercing instruments
(b). Sleeping under treated mosquito nets, slashing the bush around homes.
36. (a). it does not have a back bone
(b). to give the body shape
37. (a). pulmonary artery
(b). pulmonary vein
38. veins
39. (a). X-Ureter, Y-urethra
(b). Stores urine before passing it out
(c). Drink plenty of water, do regular exercises
40. (a). It helps to discover new events
(b). Helps to know about different diseases, how to prevent and cure them
(c). Helps to know about different body parts and how they function.