

YEAR 2013 ANSWERS

SECTION A

1. Pliers, to loosen or tighten the bolts
2. Because a piece of dry wood is less dense than water while iron nails are more dense than water.
3. Throwing left over foods in water, bathing in a lake
4. The sun
5. I-incident ray, angle r -angle of reflection
6. Angle i and r are equal. (Angle of reflection is equal to the angle of incidence)
7. a. It appears straight
b. of refraction
8. refraction, air
9. a. R-Emergent
b. E-Reflected emergent ray
10. a. Cell-stores chemical energy and converts it to electrical energy
b. Wire- transmits electrons
11. It can cause fire, shocks, death and damages electrical appliances.
12. a. Switches-To break and complete the circuit.
b. Sockets- Outlets for tapping/getting electricity
13. Don't touch live electric wires, don't touch switches with wet hands
14. Hydro-electricity
15. Sound energy, vibrating bodies
16. a. Liquids-Yes/True
b. Vacuum-No
17. At night there is quietness and no objects that distract sound movement unlike daytime.
18. Boiling/heating
19. a. True
b. False
20. Conduction, convection
21. a. Radiation
b. Conduction
22. Aluminium saucepans are good conductors of heat.
23. For future use
24. a. Volume
b. g/cc or g/cm^3
25.
$$D = \frac{M}{V} = \frac{270g}{300cm^3} = 0.9g/cm^3$$

SECTION B

26. a. A germ is a small living organism which causes diseases.
b. Bacteria, virus, protozoa, amoeba
c. Avoiding eating contaminated food, drink boiled water, wash hands before eating food.
27. a. To repair worn out tissues, to strengthen bones and teeth, to give energy, to fight diseases
b. (i). A balanced diet is a meal that contains all food values in their right amounts.
(ii). Water, carbohydrates, mineral salts, fats, vitamins, proteins.
28. a. To repair worn out tissues, for body growth.
b. To repair worn out body tissues
29. a. They are all cold blooded animals.
b. Animal C has viviparous reproduction.
c. Amphibians
d. Entering the shell
30. a. Stigma
b. attract pollinators
c. Seeds
31. a. These are diseases spread through sexual intercourse with an infected person.
b. AIDS, Syphilis, gonorrhoea
c. Abstain from sex
32. a. Bean shaped
b. To filter blood, regulate the amount of water and mineral salts in the body.
33. Drinking boiled water, washing hands before eating, covering food
34. a. For hearing or for body balance
b. Outer ear, middle ear, inner ear
c. Middle ear/ ear drum
35. a. Green dodo
b. Green dodo contains iron.
c. To repair worn out body tissues.
36. For body movement, to give the body shape
37. a. Sweat glands become active, pubic hair around privates, increase in size and weight
b. (i). Beards develop, voice breaks and deepens
(ii). Waist line and heaps develop, voice breaks and softens