

# YEAR 2006 ANSWERS

## SECTION A

1. Rotation of the earth
2. To allow in light into the house
3. A- Incident ray,
4. B-Reflected ray
5. (a). Light (b). Yes
6. Solid (ice)
7.  $D = \frac{\text{mass}}{\text{volume}} = \frac{9.0\text{g}}{10\text{cm}^3} = 0.9\text{g/cm}^3$
8. A person sinks into a lake because his/her density is more than that of water while a boat does not sink because it's density is less than that of water.
9. (a). Because white clothes reflect sunlight (heat)  
(b). Because blankets are bad conductors of heat and retain heat.
10. Magnet
11. A vacuum flask does not allow heat loss by means of radiation.  
A vacuum flask does not allow heat loss by means of convection.  
A vacuum flask does not allow heat loss by means of conduction.
12. (a). Sound energy  
(b). Iron, copper  
(c). Electricity can cause fire out breaks, electricity can cause electric shock
13. Gills-Fish, skin-earth worms, lungs and skin-frogs
14. (a). Leaf (b). Oxygen
15. Kidney
16. Roots-To absorb water and mineral salts from the soil.  
Stem-To hold other parts of the plant  
Flowers-For reproduction
- Fruits-Contain seeds for multiplication
17. Agents of pollination are things which help to transfer pollen grains from the anthers to the stigma of a flower.
18. Drinking boiled water, covering food, washing hands before eating.
19. (a). Fertilisation is the union of both the male and female gametes to produce a zygote.  
Implantation is the attachment of the embryo on the walls of the uterus to develop.  
(b). 9 months
20. (a). Human Immune Deficiency Virus  
(b). Abstain from sex, use of condoms, screening blood before carrying out blood transfusion.
21. For farming, for building
22. Human milk is cheaper than cow's milk Human milk is clean and safer than cow's milk.
23. Dermis, subcutaneous layer
24. (a). Sand soil  
(b). Because sand soil has got bigger particles  
(c). Sand soil has bigger soil particles which easily allow water to pass through compared to clay soil
25. (a) Draining swamps  
(b) Throwing polythene bags (udushashi) on the soil.  
(c) Crop rotation  
(d) Producing a lot of smoke from the factories
26. (a)- It does not have chlorophyll  
-It produces by means of spores  
(b)-Mosses  
-Conifers
27. (a) To trap dust in the nose  
(b) Tuber closes, lung cancer, whooping cough  
(c) (i) Contract  
(ii) Expands
28. (a) Used in fermentation  
-Help in decomposition /decay  
(b)-Causes food to rot  
-Causes diseases  
-Poisonous eg. Fungi like toadstools
29. (a)-They grow  
-They Reproduce  
-They feed  
(b) Plants make their own food while animals get their food from plants
30. (a) To get oxygen  
(b)(i) Malaria (ii) AIDS  
(c) Platelets, Plasma
31. (a) Cockroach A  
(b) Because it could not breathe since the spiracles are in water  
(c) It can cause diseases eg diarrhoea  
(d) Housefly
32. (a)-Smoking -Freezing  
-Sun drying  
-Tinning/ Canning  
(b) Proteins
33. Teacher's guide
34. (a)P- Stigma R- Anther  
Heads S- Style  
(b) To attract insects for pollination  
(c) Part P  
(d)(i) Stamen (ii) Pistil
35. (a) Hepatic portal vein (b) Oxygenated blood  
(c)Constipation, Vomiting

## SECTION B

24. (a). Sand soil  
(b). Because sand soil has got bigger particles  
(c). Sand soil has bigger soil particles which easily allow water to pass through compared to clay soil
25. (a) Draining swamps  
(b) Throwing polythene bags (udushashi) on the soil.  
(c) Crop rotation  
(d) Producing a lot of smoke from the factories
32. (a)-Smoking -Freezing  
-Sun drying  
-Tinning/ Canning  
(b) Proteins
33. Teacher's guide
34. (a)P- Stigma R- Anther  
Heads S- Style  
(b) To attract insects for pollination  
(c) Part P  
(d)(i) Stamen (ii) Pistil
35. (a) Hepatic portal vein (b) Oxygenated blood  
(c)Constipation, Vomiting