

Short Answer Questions

Q.1. Name two alternative arrangements for sewage disposal where there is no sewerage system.

[NCERT Exemplar]

Ans. (a) Septic tanks

(b) Composting pits

Q.2. A mixture (x) in water contains suspended solids, organic impurities, inorganic impurities (a), nutrients (b), disease causing bacteria and other microbes. Give names for (x), (a) and (b).

[NCERT Exemplar]

Ans. (x)—Sewage

(a)—Nitrates, phosphates and metals

(b)—Phosphorus and nitrogen

Q.3. What is 'onsite sewage disposal system'?

Ans. It is an alternative arrangement for sewage disposal to improve sanitation in places where there is no sewage system like in rural areas or in isolated buildings.

Q.4. What is a vermi-processing toilet?

Ans. It is a design of toilet in which human excreta is treated by earthworms to be converted into vermicakes which are good for the soil. It is a novel, low water-use toilet for safe processing of human waste.

Q.5. Why is clarified water passed through aeration tanks?

Ans. In aeration tanks clarified water is acted upon by aerobic bacteria which remove the suspended solids and dissolved substances, leaving fairly pure water.

Q.6. How is biogas formed?

Ans. The excreta of animals and humans is collected in a separate tank in a biogas plant. Here it is acted upon by the anaerobic bacteria which produce biogas in the process.