CONSTRUCTION TECHNOLOGY

Chapter 29: Drainage

1. Define *wastewater*.

2. Define *surface water*.

3. List and explain any four design criteria for a drainage system:

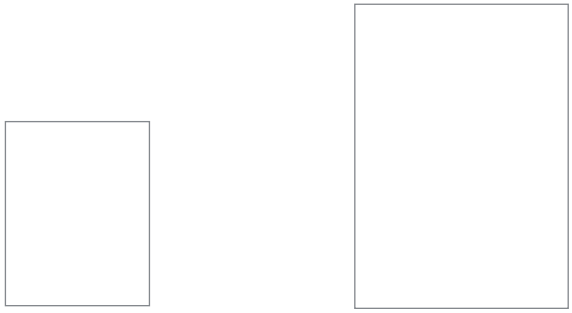
4. Explain why it is essential that the length, slope and position of each pipe is carefully designed.

5. Why must the drainage system be ventilated?

6. Generate a neat annotated sketch of a typical discharge stack and branch pipes.

7. Explain, using notes and a neat annotated sketch, the function of a P trap.

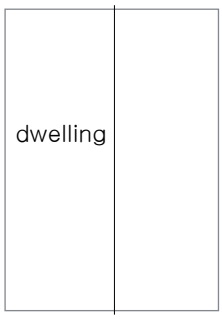
8. Generate a neat annotated sketch of a typical site plan showing wastewater and surface water drainage systems.



9. Explain the functions of a wastewater treatment system.

10. Explain, using notes and a neat annotated sketch, the test used to determine whether the soil on a site is suitable for on-site wastewater treatment?

11. Generate a neat annotated sketch showing a typical installation detail for a wastewater treatment system. *(hint see 29.12)*



12. Generate a neat annotated cross-sectional sketch of a typical septic tank.

13. Explain, using a neat annotated sketch, how a wetland (reed bed) system works. *(hint see 29.17)*