**ACHONWA NJEMANZE CHUKWUMA**

**17/ENG03/003**

**CIVIL ENGINEERING**

**QUESTION1**

**Mention 7 types of soil and their permeability values**

|  |  |
| --- | --- |
| SOIL | PEEMEABILITY VALUE |
| Sand | 5.0 |
| Sandy loam | 2.5 |
| loam | 1.3 |
| Clay loam | 0.8 |
| Boston blue clay | 0.000000007 |
| peat | 0.000006 |
| Silty clay | 0.25 |

**Questions 2**

**Explain the relevance of permeability in soil engineering:**

Permeability can be defined as the ability of a porous mass to allow passage of water through the medium. Understanding permeability mean knowing the structure of the soil and how water passes through different layers. Soil, as we know, has a layered structure and water pressure at the surface would not be the same at the middle portion. The relevance of permeability in soil engineering, enables engineers to study fluid flow characteristics through a soil mass and thus helps in improving workability of soil. As water is an essential ingredient for engineering, work in the determination of permeability helps in retaining optimum water consent so that best possible results are achieved in the minimum time.