

ASSIGNMENT:4 FOUNDATIONS ON PROBLEMATIC SOIL & INTRODUCTION TO GEOSYNTHETICS

1. Classify geotextile materials. What are the basic functions performed by geotextiles?
2. Define swelling potential and swelling pressure. How can you reduce the effect of swelling of soil on the structures?
3. Explain the concept of under reamed pile. Where do we use it? Also explain the method of its installation
4. Explain the various types of test for expansive soil.
5. What is 'active zone' in black cotton soil? State properties of black cotton soil.
6. List various types of geosynthetics with their functions.
7. Explain identification of collapsible soils.
8. Explain in detail various uses of geosynthetics.
9. What are the general characteristics of expansive soil? How expansive soil can be identified in the laboratory.
10. Enlist various function of geotextile and explain any one in detail.

