

ASSIGNMENT – 1 FOUNDATION

- Q.1** What is foundation? Discuss various functions of Foundation.
- Q.2** What is sub surface investigation? What are the site exploration
- Q.3** What are the various methods of Sub soil exploration? Explain in detail
- Q.4** Describe In brief, various methods of boring for subsoil exploration. Explain wash boring with neat sketch.
- Q.5** Write a short note on seismic method.
- Q.6** Describe the plate load test for determining safe bearing capacity of soil with sketch.
- Q.7** Explain the methods of improving safe bearing capacity of soil.
- Q.8** What is mean by Combined footing, Strap footing, Raft foundation explain in detail.
- Q.9** What are the problems of foundation in black cotton soil? What precautions are taken during foundation construction in black cotton soil?
- Q.10** What are the causes of foundation? What remedial measures would you adopt?
- Q.11** Describe with sketch any two cast in situ concrete pile.
- Q.12** Describe in brief various type of pile driving equipments, giving sketch of each.
- Q.13** What are the most common causes of failure of pile.
- Q.14** Explain with sketches, construction procedure of 1) Button bottom pile 2) Simplex pile
- Q.15** Write a short note on under reamed pile.
- Q.16** What is pneumatic caisson? Where is it adopted? Describe the procedure for sinking, giving advantages and disadvantages.
- Q.17** What is meant by tilting caisson? What are the reasons? How the tilted caissons can be brought in correct position diseases?
- Q.18** Describe box caissons, give neat sketch, in which box caisson are adopted?