

VANDAYAR ENGINEERING COLLEGE, Thanjavur.
Department of Civil Engineering
CE 2305 : FOUNDATION ENGINEERING
ASSIGNMENT SHEET -I
UNIT-I:Site Investigation and Selection of Foundation

Regulation : 2008
Year / Sem : III / 5TH
Faculty I/c :

No of Periods : 9
Academic Year :2013-14

Q. No.	Part A	Year
1.	What is the object of site exploration?	May'12
2.	What are undisturbed samples? <p style="text-align: center;">(or)</p> What is meant by a non- representative samples?Name the laboratory tests that could be conducted on this sample. <p style="text-align: center;">(or)</p> Distinguish between representative and non- representative samples	May'12; Nov'11; Apr'10
3.	What is site reconnaissance?	May'12
4.	What is significant depth?	May'12
5.	In a rock core drilling, the sum of lengths of rock pieces having length more than 100 mm is 750 mm.If the length of run is 1 m,find RQD.	Nov'11
6.	How do you decide the depth of soil exploration?	Apr'10
7.	Define: (a) Area ratio (b) Inside clearance of a sampler.	May'09
8.	List out different methods of sampling techniques.	May'09
Q. No.	Part B	
10.	Explain the three types of samplers. <p style="text-align: center;">(or)</p> Explain the three types of soil samplers. <p style="text-align: center;">(or)</p> Explain with neat sketches any three type of samplers.	May'12; May'09
11.	Explain any three boring methods in detail.	May'12
12.	i) The inner diameters of sampling tube and that of cutting edge of a sampler are 70 mm and 68 mm respectively, their outer diameters are respectively 72 mm and 74 mm.Determine the inside clearance, outside clearance and area ratio of the sampler.Comment on the suitability of the sampler for collecting undisturbed sample. ii) Explain the corrections that are to be carried out to the observed N-Value.	Nov'11
13.	i)Explain with a neat sketch,how Rotary drilling is done. ii)What are the advantages and disadvantages of Static Cone Penetration Test over boring and sampling?	Nov'11
14.	Explain the seismic refraction method in detail.	May'12
15.	i)What are the objectives of soil exploration? ii)Write down the procedure to conduct standard penetration test.	Apr'10
16.	Discuss the selection of foundation based on soil condition.	Apr'10
17.	Write explanatory notes on the following: i)Chunk sampling ii)Rotary drilling iii)Bore hole log iv)Electrical resistivity method of ground exploration.	May'09

Date of Submission to the faculty in-charge by the student:03.08.2013

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6.	Explain any three boring methods in detail.	May'12
7.	Explain the seismic refraction method in detail.	May'12

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