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Total No. of Questions: 87

[Total No. of Printed Pages: 2

Roll No

MVSE-301(B) M.E./M.Tech. III Semester

Examination, December 2016

Advance Foundation Engineering (Elective-I) Time: Three Hours

Maximum Marks: 70

Note: i) Attempt any five questions.

- ii) All questions carry equal marks.
- 1. Explain in detail the Seismic method of soil exploration with its limitations.
- 2. a) Discuss various design features which affect the sample disturbance.
 - Describe various types of shallow foundations with their suitability.
- What are the limitations of plate load test?
 - Explain the following:
 - i) Modulus of subgrade reaction
 - ii) Laterally loaded piles
- Explain the following:
 - i) Influence of pile cap
 - ii) Pile driving
 - Discuss various dynamic methods of estimating bearing capacity of piles.

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	5.	a)	Explain pile load test in detail.	7
		b)	Describe various types of piles with their suitability.	7
		0		
	6.	a)	Describe various types of coffer dams and their uses.	7
		b)	Discuss various design criteria of Cellular coffer da embedded in deep soil.	m 7
	7.	a)	What are the general criteria for satisfactory action of machine foundation?	fa 7
		b)	Discuss IS code provisions for design of Impact type machine foundation.	of 7
58	8.	Wi	ite short notes on any four of the following:	14
		a)	Types of samples	

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- Raft foundation
- Site investigation
- Battered piles
- Interlock stresses
- Types of vibrations
- Construction of earth embankment cofferdam

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