Thotal No. of Printed Pages (2)

Roll No.

MVCT/MBCT/MVCP-103

M.E./M.Tech., I Semester

Examination, November 2018

Advanced Geotechnical Engineering

Time: Three Hours

Maximum Marks: 70

Note: i) Attempt any five questions.

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- ii) All questions carry equal marks.
- iii) Assume missing data, suitably.
- 1. Explain various methods of Geophysical exploration along with their limitations.
- 2. Derive an expression for vertical stresses due to concentrated loading using Bossinesq method. 14
- 3. Define caisson and explain its types. Draw a neat sketch of an open caisson and label all its components.
- Explain about Newmarks influence chart and write its uses.
 - Discuss various design steps of cellular coffer dam on rock.
- Discuss provisions of IS code for the design of foundation of the Reciprocating machines.
 - Discuss the use of single degree freedom system in the analysis of Machine foundation.

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6.	a)	Explain about under reamed piles.	7
	b)	Explain about CNS layer techniques.	7
7.	a)	Explain about classifications of rocks.	7
	b)	Explain about various properties of rocks.	7
8.	Write short notes on following.		
	a)	Damped vibrations	4
	b)	Undamped vibrations	4
	c)	Coffer dam	2
	d)	Mass spring model of analysis	4
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