## Government College of Engineering, Aurangabad (An Autonomous Institute of Government of Maharashtra)

## **B.E (CIVIL) OLD Examination**End Semester Examination Dec.2016

CE 404 EQUINDATION ENGINEEDING TO 4' NOV 2016	
CE404: FOUNDATION ENGINEERING \$2 1', NOV 2016 Time: Three Hours	
Time: Three Hours "Verify the course code and check whether you have got the correct question	n nanar''
N.B:-	п рирег
1. All questions are compulsory	
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2. Figures to the right indicate full marks	
3. Assume suitable data if necessary and state it clearly	
4. Use of non-programmable calculator is allowed	
Q1. Attempt any Two	
i) State the methods of site investigation and sub-soil exploration. Exp	lain with
the help of neat and labeled diagram the seismic method.	
ii) Explain the effect of eccentric loading on bearing capacity of soil.	
iii) Explain standard penetration in detail.	(12)
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Q2. Attempt any Two	
i) Discuss consolidation settlement of soil.	
ii) What is floating foundation? What are the advantages and limination	ıs.
iii) What is combined footing? Write down the design steps for the design	
rectangular combined footing.	(12)
Q3. Attempt any Two	
i) With the help of neat sketches, explain different types of raft foundation	tion.
ii) Explain in detail pile load test.	
iii) Explain different types of piles on the basis of function and material	l. (12)
Q4. Attempt any Two	
i) Explain with neat sketch various types of cofferdam.	
ii) What are the difficulties in sinking of caisson.	
iii) Explain working and construction feature of pneumatic caisson.	(12)
Q5. Write short note on: (Any Two)	
i) Characteristics of B.C. soil	¥6 84
ii) Caisson disease	

iii) Negative skin friction

(12)