[Time: Three Hours]

SUBJECT CODE NO:- P-113

FACULTY OF ENGINEERING AND TECHNOLOGY

B.E.(Civil) Examination May/June 2017 Foundation Engineering

(Revised)

[Max.Marks:80]

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N.B	Please check whether you have got the right question paper. i)Solve any three question from the each section. ii) Assume suitable data whenever necessary and state at clearly iii) Draw neat Sketches whenever required Section A	
Q.1	a) Explain "Wash boring" method of sub soil exploration in detail	07
	b) Explain with neat sketches:	07
	i) General shear failure	
	li) Local shear failure	
	iii) Punching shear failure	
Q.2	a) Discus the Terzaghi's expression of bearing capacity of soil for square and circular footings	07
	b) Discuss the effect of water table on bearing capacity of soil	06
Q.3	a) What is floating foundation? Discuss	06

	III) compined tooting	
	Section Section 1997	้
_	a) Discuss the designs procedure of pile foundation	Ġ

ii) Seismic method of sub soil exploration

b) Write a note on differential settlement of soil

Q.4 a) Discuss the procedure for proportioning of footing of equal settlement

b) Derive the equation for immediate settlement for semi- infinite layer

Q.6	a) Discuss the designs procedure of pile foundation	07
	h) How – nile canacity is decided? Discuss the arrangement of nile also	07

	by now plue capacity is accided. Discuss the arrangement of plue also	0,
Q.7	a) Discuss tilting and seating of well	07
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	b) differentiate between open caisson and pneumatic caisson	Ut
Q.8	a) Explain why drainage of foundation is necessary, describe various methods of soil damage	07
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	b) what difficulties are encountered in sinking of caisson	06
Q.9	a) Explain pile load test in detail	07
877	b) Explain different types of cofferdams with neat sketches	06
Q.10	O Write short notes on:	13

- i) Effect of pile drawing on ground
- ii) Sand island method

Q.5 Write short notes on:

i) Auger Boring

iii) Design of circular cofferdam