KERALA AGRICULTURAL UNIVERSITY B.Sc (Hons.) Forestry 2015 Admission Ist Somester Final - Framination- March-2016

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I st Semester Final - Examination- March-2016	Manhas 50 00
Cat. No:Safo.1102 Title: Fundamentals of Geology and soil science (2+1)	Marks: 50.00 Time: 2 hours
I Fill up the blanks	(10 x 1=10)
1. Marble is a metamorphosed equivalent of	
2. The most dominant element in the earth's crust is	
3. The difference in the moisture content between liquid limit and	
called	-
4. Common colour chart used for describing the soil colour is	
5. The branch of geology that deals with the origin , composition , str	ucture, and alteration
of rocks is called	
6. The ionic radius of cations are usuallythan that of	anions
7. The basic unit of soil structure is called	
8. The bouncing or jumping of soil particles in the range of 0.05 to 0	
9. Ferro magnesium in diameter is called	
10. Sodic soils without any appreciable quantities of soluble salts is c	alled
II Write short notes on any FIVE questions	(5 x 2=10)
1. Quality of irrigation	
2. Maintenance of organic matter in soils	,
3. Nitrification	
4. Fate of ammonium ions in soil	
5. Soil structure	
6. Rhizosphere	· .
7. Lime requirement	
III Write short essay on any FIVE questions	(5 x 4=20)
1. Vapour movement in soils	
2. Biological classification of water	
3. Remote sensing	
4. Practical difficulties in soil survey	
5. Temperature management in soils	
6. Composition of soil air	
7. Soil crusting	

IV Write essay on any ONE

(1 x 10=10)

- 1. What is weathering? How do you differentiate physical weathering from chemic weathering? What are the different processes involved in physical and chemic weathering
- 2. What are saline soils and how do you characterize them? Give reasons for formation saline soils and what are the measures to reclaim saline soils