

KERALA AGRICULTURAL UNIVERSITY

B.Tech. (Ag. Engg.) 2017 Admission I Semester Final Examination-January-2018

Principles of Soils Science (2+0)

Marks: 50 Time: 2 hours

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I	-	Fill in the blanks:	(10x1=10)
	1	The most abundant element of the atmosphere is	
	2	The most abundant rock type of the earth's crust is	
	3	The common C:N ratio of soil is	
	4	Horizons A and B together called as	
	5	Soil colour is measured usingchart.	
	6	There areorders in soil taxonomy.	
	7	The black soils of India are classified inorder of Soil	Taxonomy.
	8	The process of 'moving out' in a soil profile is known as	
	9	An acidic soil will have pH less than	
	10	is used for reclamation of sodic soil.	
11		Write Short notes on ANY FIVE of the following	(5x2=10)
		Differentiate between	
	1	Physical weathering and chemical weathering	
	2	Primary mineral and secondary mineral	
	3	Bulk density and particle density	
	4	Texture and structure	
	5	Saline and sodic soils	
	6	Acid soil and alkaline soil.	
	7	Igneous rock and sedimentary rock.	
ш		Answer ANY FIVE of the following	(5x4=20)
	1	Important inorganic soil colloids	
	2	Importance of Soil organic matter	
	3	Factors of soil formation	
	4	Quality of irrigation water	
	5	Cation exchange capacity	
	6	Soil organic matter and its importance	
	7	Soil structure and its importance	
IV		Write an essay on ANY ONE of the following	(1x10=10)
	î	List and explain important physical properties of soil with their important	30
	2	a What is soil taxonomy? What is its relevance	
		b List out important soil orders and explain any five of them	
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