## **RDL 700: Biomass Production**

## (Minor - II)

Max. Marks: 21

**Duration: 1 hour** 

Date: 20th March, 2015

Q.1.Flaborate on	clear	the	terms:
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- a) Alfisols 0.25
- b) Ultisols 0.25
- c) Entisols 0.25
- d) Inceptisols 0.25
- Micas 0.5
- 1) Leldspars 0.5
- g) Serpentine 0.5
- h) Glauconite 0.5
- i) Lepidocrocite and Limonite 0.5
- j) Goetnite and Magnetite 0.5 (4)

## Q.2. Differentiate;

A) Khadar from Bhangar soils

6) Montmorillonite from kaolinite clay particles (with diagrams)

e) Illite from chlorite clay particles (with diagrams)

Autochthonus bacteria from zymogenous bacteria 1.5x4 (6)

What do you mean by chelating property of humus? Explain it 2.5

M Give the formula to determine pore space % 0.5

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Si	oils discussed in the class	(m kg	ha) and C (%) of medium soils according to the rating chart for	
(	D. 484 List any three techn.	ologio	(4)	
	/		s seen by you during your visit to micro model. If f Delhi tioned technologies in rural development 1.5	
الملا	Calculate the N in kg/ha	on the いご	basis of 0.25% N in soil of density 1.3tons/m, 0.5	
	J		(2)	
Q.	.5 Match the following		1 x1	
1.	Obligate aerobes	a.	Only anaerobic growth: but continues in the presence of oxygen	
2.	Facultative aerobes	b.		
3.	Obligate anaerobes	c.	Only aerobic growth: oxygen required in low concentration.	
4.	Aerotolerant anaerobes	d.	Only aerobic growth; oxygen required	
5.	Microaerophilic	e.	Only anaerobic growth; ceases in the presence of oxygen.	
			(1)	
<b>).</b> 6 /	A) Complete the sentence	e by cl	hoosing the correct option, filling the blank	
Natural substance which is difficult to degrade biologically isa. Lignin b. cellulose c. hemicellulose d. chitinase				
•			olymer present on earth issubarin d. chlorophyll	
scientist showed that Fermentation is initiated by living organisms. 1.5				
(B) Which microorganism is widely used for the process of fermentation? 0.5				
Discuss, how the fermentation is different from aerobic respiration? 2 (4)				