KERALA AGRICULTURAL UNIVERSITY B.Tech (Food.Engg) 2011 Admission IInd Semester Special Re- Examination- June -2015

Cat. No: Fde Title: Gener	al Microbiology (1+1)	Marks: 80.00 Time: 3 hours
1. Define the following $(10x1=10)$		(10x1=10)
	Plaque	NUS STRAD OFFIC
	Plasmid	- ¥
	Heterokaryosis	
	Archaea	
	Chemoautotroph	
	Numerical aperture	
	Germ theory of diseases	
	Antibody	
	Mutation	
10). Genetic engineering	
II. Write short notes on any ten		(10x3=30)
	Vaccines	
2.	Phase contrast microscopy	
3.	Contributions of Leewenhoek	
4.	Pasteurization	
5.	Pour plate technique	
6.	Photosynthetic bacteria	e
7.	Bacterial conjugation	
8	Role of T cells in defense mechanism	
9	Lytic phages	
-1/). Blue green algae	
1	 Scanning electron microscope 	
	2. Synchronous culture	
	short essays on any six of the following	(6x5=30)
	Differentiate between aerobic respiration and ferme	ntation
	Biosynthesis of proteins	
	Differentiate between heterotrophs and autotrophs	
4	Life cycle of lysogenic phage	-
5	What are complete and selective media? Give exam	ples
	What is meant by differential staining? Explain with	h suitable example
	Electron transport chain	
	What is meant by spontaneous generation theory? V	
	essay on any one	$(1 \times 10 = 10)$
1	Differentiate batwoon probaryotas and aukaryotas	Traw a neatly labeled

- 1. Differentiate between prokaryotes and eukaryotes. Draw a neatly labeled diagram of typical prokaryotic cell.
- Explain briefly the applications of microorganisms in industry. Give suitable examples.