



SADAKATHULLAH APPA COLLEGE (AUTONOMOUS)

Rahmath Nagar, Tirunelveli - 627 011

Online-Class Lesson Plan

Academic Year 2018-2019 [Odd Semester]

Department: MICROBIOLOGY

Class	:	1 ST year M.SC., Microbiology
Semester	:	1 ST Semester
Name of the Faculty	:	Dr. K. Feroz Khan
Title of the Course	:	General microbiology and Bacteriology
Subject Code	:	18PCMB11
ICT Tools used	:	
Text books	:	
Reference books	:	Prescott L.M., Harley J.P. and Klein D.A. 2008. Microbiology (7th edition). McGraw Hill, New York
e-resources	:	

Sl. No	Actual Date	Hour	Order	Unit	Topics Planned	Date-Topics Covered on	Remarks
1	18/6/2018	III	A	I	Introduction to Discovery of microbial world	18/6/2018	
2	20/6/2018	IV	C	I	History & of Microbiology	20/6/2018	
3	21/6/2018	I	D	I	Microbiological Contribution of Antonie Von Leeuwenhoek	21/6/2018	
4	21/6/2018	II	D	I	Microbiological Contribution of Edward Jenner	21/6/2018	
5	22/6/2018	V	E	I	Microbiological Contribution of Louis Pasteur	22/6/2018	
6	25/6/2018	I	F	I	Microbiological Contribution of Louis Pasteur	25/6/2018	
7	26/6/2018	III	A	I	Microbiological Contribution of Robert Koch	26/6/2018	
8	29/6/2018	IV	C	I	Microbiological Contribution of Robert Koch	29/6/2018	
9	2/7/2018	I	D	I	Microbiological Contribution of Martinus Beijerinck	2/7/2018	
10	2/7/2018	II	D	I	Microbiological Contribution of Sergei Winogradsky	2/7/2018	
11	3/7/2018	V	E	I	Microbiological Contribution of Joseph Lister	3/7/2018	

12	4/7/2018	I	F	I	Microbiological Contribution of Paul Ehrlich	4/7/2018	
13	5/7/2018	III	A	I	Microbiological Contribution of Alexander Fleming	5/7/2018	
14	9/7/2018	IV	C	I	Microbiological Contribution of Selman Waksman	9/7/2018	
15	10/7/2018	I	D	I	The Spontaneous generation controversy	10/7/2018	
16	10/7/2018	II	D	I	Current thoughts on microbial evolution including the origin of life	10/7/2018	
17	11/7/2018	V	E	I	Current thoughts on microbial evolution including the origin of life	11/7/2018	
18	12/7/2018	I	F	I	Scope and relevance of Microbiology	12/7/2018	
19	13/7/2018	III	A	II	Introduction to Taxonomy	13/7/2018	
20	17/7/2018	IV	C	II	Introduction to Classification	17/7/2018	
21	18/7/2018	I	D	II	Ernst Haeckel's Three kingdom System of Classification	18/7/2018	
22	18/7/2018	II	D	II	Robert Whittaker's Five kingdom System of Classification	18/7/2018	
23	19/7/2018	V	E	II	Carl Woese six kingdom of biological classification	19/7/2018	
24	20/7/2018	I	F	II	Cavalier Smith's eight kingdom, six kingdom of biological classification	20/7/2018	
25	23/7/2018	III	A	II	Cavalier Sr ith's eight kingdom, six kingdom of biological classification	23/7/2018	
26	25/7/2018	IV	C	II	Introduction Modern trends in the classification of microbial world	25/7/2018	
27	26/7/2018	I	D	II	CIA 1	CIA 1	
28	26/7/2018	II	D	II	16S rDNA sequencing	26/7/2018	
29	30/7/2018	V	E	II	Numerical taxonomy	30/7/2018	
30	31/7/2018	I	F	II	Numerical taxonomy	31/7/2018	
31	1/8/2018	III	A	II	molecular taxonomy	1/8/2018	
32	3/8/2018	IV	C	II	molecular taxonomy	3/8/2018	
33	6/8/2018	I	D	II	Introduction to the Bergey's Manual of Determninative Bacteriology	6/8/2018	
34	6/8/2018	II	D	II	Introduction to Eubacteria.	6/8/2018	

35	7/8/2018	V	E	II	major groups of Eubacteria.	7/8/2018	
36	8/8/2018	I	F	II	Introduction and major groups of Eubacteria.	8/8/2018	
37	9/8/2018	III	A	III	Morphology of Bacteria	9/8/2018	
38	13/8/2018	IV	C	III	Ultra structure of Bacteria	13/8/2018	
39	14/8/2018	I	D	III	Size, Shape and Arrangement of bacteria	14/8/2018	
40	14/8/2018	II	D	III	Structure of Gram positive bacterial Cell Wall	14/8/2018	
41	16/8/2018	V	E	III	Chemical composition of Gram positive bacterial Cell Wall	16/8/2018	
42	17/8/2018	I	F	III	Structure of Gram negative bacterial Cell Wall	17/8/2018	
43	18/8/2018	III	A	III	Chemical composition of Gram negative bacterial Cell Wall	18/8/2018	
44	28/8/2018	IV	C	III	Structure of Archae Cell Wall	28/8/2018	
45	29/8/2018	I	D	III	Chemical composition of Archae Cell Wall	29/8/2018	
46	29/8/2018	II	D	III	Structure of cell membrane	29/8/2018	
47	30/8/2018	V	E	III	Composition and Function of Cell membrane	30/8/2018	
48	31/8/2018	I	F	III	Structure, Composition, Function of Capsule and Endospores	31/8/2018	
49	3/9/2018	III	A	III	Structure, Composition and Function of Gas vesicles, Cytoplasmic matrix	3/9/2018	
50	5/9/2018	IV	C	III	Structure, Composition and Function of Chromosomes, Carboxysomes, Magnetosomes	5/9/2018	
51	6/9/2018	I	D	III	CIA II	CIA II	
52	6/9/2018	II	D	III	Structure, Composition and Function of Pilli and Phycobilisomes, Nucleoid	6/9/2018	
53	7/9/2018	V	E	III	Structure, Composition and Function of Flagella and Reserve food materials	7/9/2018	
54	8/9/2018	I	F	III	CIA II	CIA II	
55	10/9/2018	III	A	IV	Cultivation of bacteria by Aerobic, method	10/9/2018	
56	12/9/2018	IV	C	IV	Cultivation of bacteria by Anaerobic method	12/9/2018	

57	17/9/2018	I	D	IV	Nutritional Types of bacteria	17/9/2018
58	17/9/2018	II	D	IV	Culture Media	17/9/2018
59	18/9/2018	V	E	IV	Growth Curve	18/9/2018
60	19/9/2018	I	F	IV	Generation time	19/9/2018
61	20/9/2018	III	A	IV	Growth kinetics	20/9/2018
62	25/9/2018	IV	C	IV	Growth kinetics	25/9/2018
63	26/9/2018	I	D	IV	Synchronous growth	26/9/2018
64	26/9/2018	II	D	IV	Batch culture	26/9/2018
65	27/9/2018	V	E	IV	Continuous culture	27/9/2018
66	28/9/2018	I	F	IV	Measurement of growth - biomass	28/9/2018
67	29/9/2018	III	A	IV	Measurement of growth -turbidity	29/9/2018
68	3/10/2018	IV	C	IV	Measurement of growth -dry weight	3/10/2018
69	4/10/2018	I	D	IV	Measurement of growth -protein content	4/10/2018
70	4/10/2018	II	D	IV	Control of microbes by Chemical agents	4/10/2018
71	5/10/2018	V	E	IV	Control of microbes by Physical agents	5/10/2018
72	8/10/2018	I	F	IV	Physical factors affecting microbial growth	8/10/2018
73	9/10/2018	III	A	V	General Characters of Archae	9/10/2018
74	11/10/2018	IV	C	V	Archae types	11/10/2018
75	12/10/2018	I	D	V	General Characteristics of Methanobacterium ,	12/10/2018
76	12/10/2018	II	D	V	General Characteristics of Methanococcus	12/10/2018
77	15/10/2018	V	E	V	General Characteristics of Methanomicrobium, Methanosarcina	15/10/2018
78	16/10/2018	I	F	V	CIA III	16/10/2018
79	17/10/2018	III	A	V	General Characteristics of Halobacterium	17/10/2018

80	23/10/2018	IV	C	V	General Characteristics of Thermococcus	23/10/2018	
81	24/10/2018	I	D	V	CIA III	CIA III	
82	24/10/2018	II	D	V	Adaptations, role Archea in the evolution of microbial world.	24/10/2018	
83	25/10/2018	V	E	V	General Characters of Cyanobacteria, ,	25/10/2018	
84	26/10/2018	I	F	V	Classification of Cyanobacteria	26/10/2018	
85	27/10/2018	III	A	V	Ultrastructure of Cyanobacteria	27/10/2018	
86	30/10/2018	IV	C	V	Reproduction of Cyanobacteria	30/10/2018	
87	31/10/2018	I	D	V	Economic importance of Cyanobacteria.	31/10/2018	
88	31/10/2018	II	D	IV	Measurement of growth (biomass, turbidity, dry weight and protein	31/10/2018	
89	1/11/2018	V	E	IV	Growth kinetics	1/11/2018	
90	2/11/2018	I	F	IV	Synchronous growth	2/11/2018	

D. A. P. S.

Signature of the Faculty

P. P. S.

Signature of the HOD