

**J.J. College of Arts and Science (Autonomous)**  
J.J. Nagar, Sivapuram Post, Pudukkottai – 622 422

**Department of Microbiology**

**Bridge Course Syllabus**  
(For the Students admitted from 2021 onwards)

Day	Topic	Syllabus
Day 1	Fundamentals of Microbiology	Definition, Basic concepts of Microorganisms, Scope, Milestones and sterilization techniques.
Day 2	Bacteriology	Definition, Characteristics, taxonomy and importance.
Day 3	Mycology	Definition, Characteristics, taxonomy and importance.
Day 4	Virology	Definition, Characteristics, taxonomy and importance.
Day 5	Molecular Biology	Definition, Nucleic acids and its structure.

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**Head of the Department**

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*C.D.*  
**Principal** 21/9/21

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Bridge Course (2021-2022)

U21MB

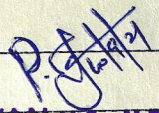
Reg. No	Name	02/09/21	03/09/21	04/09/21	06/09/21	07/09/21	08/09/21	09/09/21
1001	Archana . A .	A	A	P	P	P	P	A
1002	Archana . S	P	P	P	P	P	A	A
1003	Bawatharani . R .	P	P	P	P	P	P	P
1004	Boornika . S .	P	P	P	P	P	P	P
1005	Harini . S .	A	A	A	P	A	P	A
1006	Hemadharshini . S .	P	P	P	P	P	P	P
1007	Inbalakshmi . K .	P	P	P	P	P	P	P
1008	Jansi Rani . M .	P	P	P	P	P	P	P
1009	Kamatchi . M .	P	P	P	P	P	P	P
1010	Karthika . K .	P	P	P	P	P	P	P
1011	Kisuthika . M .	P	P	P	P	P	P	A
1012	Krishnaveni . P	A	P	P	P	P	P	P
1013	Mamathi . P .	P	P	P	P	P	P	P
1014	Mekala . M .	P	P	A	A	A	P	P
1015	Nandhini . M .	P	P	P	P	P	P	P
1016	Pisathibaa . A .	P	P	P	P	P	P	P
1017	Rakshana . S .	P	P	P	P	P	P	P
1018	Ramya . S . 9.12.2003	P	P	P	P	P	P	P
1019	Ramya . S . 19.12.2003	P	P	P	P	P	P	P
1020	Reberka . G .	P	A	A	A	P	P	P
1021	Rosini . M .	P	P	P	P	P	P	P
1022	Shanmuga Priya . S .	P	P	P	P	P	P	P
1023	Sharmi . K .	P	P	P	P	P	P	P
1024	Sneka . E .	P	P	P	P	P	A	A
1025	Subalakshmi . K .	P	P	P	P	P	P	P
1026	Sweetha . V .	P	P	P	P	P	P	P
1027	Varsha Shalmi . P .	P	P	P	P	P	P	P
1028	Varshini . R . S .	P	P	P	P	P	P	P
1029	Vinisha . M .	P	P	P	P	P	P	P
1030	Vishali Bharathi . R .	P	P	P	P	P	P	P
1031	Yazhini . K .	P	P	P	P	P	P	P
1032	Yogalakshmi . J	P	P	P	P	P	A	A
1033	Yogeswari . S .	P	P	P	P	P	P	P
1034	Yalini . B .	A	A	A	A	A	A	A

U21MB

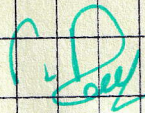
Reg. No	Name	02/09/21	03/09/21	04/09/21	06/09/21	07/09/21	08/09/21	09/09/21
2001	Abdul Rahman. N	P	P	P	P	P	P	P
2002	Ahamed Salman. A.	P	P	A	P	P	A	P
2003	Akash. E	P	P	P	A	P	P	P
2004	Harikaran. R.	P	P	P	P	P	P	P
2005	Karthi Keyan. T.	P	P	P	P	P	P	P
2006	Mohamed Jaffer. A.	P	P	P	P	P	P	P
2007	Muthukumar. D.	P	P	P	P	P	P	P
2008	Pandiyan. A.	A	P	P	P	P	P	P
2009	Ramona. R.	A	A	P	P	P	P	P
2010	Seyad Anvar. T.	A	P	A	P	A	P	P
2011	Thurai raj. T.	A	P	P	P	P	A	A
2012	Vaisamuthu. P.	A	A	P	P	P	P	P
2013	Vasantha kumar. B.	A	P	P	P	A	P	P
2014	Vinodh. S.	P	P	P		P	P	P
2015	Vinoj. D.	A	A	P	P	A	P	P
2016	Vinoth Kumar. A.	A	P	P	P	A	P	P
2017	Vivekanandan. K.	P	P	P	P	P	P	P

Teacher's signature

~~Signature~~

  
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**Department of Microbiology**

**Bridge course Pre-test (2021-2022)**

**Total Marks: 30**

**Date: 02.09.2022**

**I. Short Answer:**

1. Define Microbiology.
2. UIR1MBCC1 -abbreviation
3. How to prepare 5% sodium chloride solution?
4. Define: Pathogen.
5. Abbreviation –SBE, MBE, IDC
6. Which test used to detect COVID-19?
7. SARS stands for -----
8. Write any two plant virus.
9. What is disinfection?
10. Explain CFU.
11. Expand DNA and RNA?
12. What is the scope of Microbiology in agriculture?
13. Comment ICAR.
14. Infer Industrial Microbiology.
15. Define Immunology
16. Autonomous is a -----
17. ----- Semesters are there for Bachelor's course.
18. Our college is affiliated under----- university
19. Our university follows ----- type of educational system
20. Our college NAAC grade-----

**II. Match the Following:**

Investigator	Contribution
1. Antony van Leeuwenhoek	- Established germ theory of fermentation
2. Louis Pasteur	- Discovered vaccination for smallpox
3. Robert Koch	- First to observe and accurately record microorganisms
4. Edward Jenner	- Differential staining of Bacteria (Gram-Stain)
5. Hans Christian Gram	- Discovered causative agents of anthrax and tuberculosis

**III. Choose the correct Answer:**

1. Who first observed and described bacteria?  
a. Louis Pasteur                      b. Antony Van Leeuwenhoek  
c. Later Robert Koch                d. Alexander Fleming
2. Bacteria are Classified under  
a. Eukaryotes                          b. Animal Kingdom  
c. Plant Kingdom                      d. Prokaryotes
3. Gram Positive bacteria appear-----  
a. Blue in Colour                      b. Violet Colour  
c. Red Colour                          d. Colourless
4. Streak Culture method is used for isolation of---  
a. Bacteria                              b. Virus  
c. Protozoa                              d. Fungi
5. In Acid fast staining-----is used as counter stain.  
a. Carbol fuschin                      b. Sulphuric acid  
c. Water                                  d. Methylene Blue

*P.G. 2/9/21*  
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*G.D.*  
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**Bridge course Post-test (2021-2022)**

**Total Marks: 30**

**Date: 09.09.2021**

**PART-A**

- Which of the following is an example of the prokaryotic cell?  
a. Bacteria b. Plant cell c. Animal cell d. Yeast
- The common word for bacteria which are spherical in shape is  
a. Cocci b. Bacilli c. Spirilla d. Pleomorphic
- Which of the following would be examples of Eukaryotic cells  
a. Animals and Bacteria b. Prokaryotes and Animals  
c. Plants and Bacteria d. Plants and Animals
- Select a foodborne toxin  
a. Botulinum toxin b. Tetanus toxin  
c. Diphtheria toxin d. Cholera Toxin
- Peptidoglycan is found in the bacteria  
a. Cell membrane b. Glycocalyx  
c. Cell wall d. Spore
- Viruses require----- for growth.  
a. Bacteria b. Plants  
c. Animals d. Living cells
- What are the common symptoms of COVID-19?  
a. A new and continuous cough b. Fever  
c. Tiredness d. All of the above
- Helminthes also commonly known as  
a. Mollusk b. Parasitic worms  
c. Disease d. All of these
- Which of the following disease is not caused by microbial protein toxin?  
a. Botulism b. Diphtheria  
c. Shigella dysentery d. Tuberculosis
- A cell without a cell wall is termed as  
a. Tonoplast b. Protoplast c. Symplast d. Apoplast
- One micron =?  
a. One thousand millimeter b. Hundred millimeter  
c. Both (a) and (b) d. None of these
- The Cocci which forms a bunch and irregular pattern are  
a. *Staphylococci* b. *Diplococci*  
c. *Tetracocci* d. *Streptococci*
- The iodine used in Gram staining serves as a  
a. Chelator b. Catalyst c. Mordant d. Cofactor
- Study of fungi means.  
a. Mycology b. Bacteriology  
c. Virology d. Immunology

- The infectious diseases transmitted from animal to human called  
a. Zoonoses b. Contagious disease  
c. Rodent disease d. Arthropod
- Nosocomial infection means  
a. Environment b. Hospital c. School d. Wound
- Bacterial flagella is made up of  
a. Microtubules b. Tubulin c. Flagellin d. Spinin
- What is the most common cause of urinary tract infection (UTIs)?  
a. *Staphylococcus* b. *E.coli* c. *Lactobacillus* d. *Streptococcus*
- Whittaker proposed a  
a. Three kingdom b. Four kingdom  
c. Five kingdom d. Six kingdom
- Bacterial Chromosome is  
a. Single stranded and circular b. Double stranded and circular  
c. Single stranded and linear d. Double stranded and linear

**PART-B**

- Write any two Respiratory diseases
- Write the abbreviation of COVID-19.
- Expand Pandemic disease.
- Infer SARS.
- Joseph Lister was the first to use antiseptics in surgery (true/false)
- How is COVID-19 passed on?
- Comment Aarogya Setu App.
- Define Antibiotic.
- What is meant by sterilization?
- What is the genetic material of corona virus?

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**Bridge Course – 2021**

S.No	Reg No	Name	Pre Test 02.09.2021	Post Test 09.09.2021
			Marks(30)	Marks(30)
1	U21MB1001	A. Archana	AAA	AAA
2	U21MB1002	S. Archana	25	AAA
3	U21MB1003	R. Bavatharani	26	23
4	U21MB1004	S. Boomika	25	19
5	U21MB1005	S. Harini	AAA	AAA
6	U21MB1006	S.Hemadharsini	27	23
7	U21MB1007	K. Inbalakshmi	17	22
8	U21MB1008	M. Jansi Rani	25	27
9	U21MB1009	M. Kamatchi	6	19
10	U21MB1010	K.Karthika	18	21
11	U21MB1011	M. Kiruthika	22	AAA
12	U21MB1012	P.Krishnaveni	AAA	16
13	U21MB1013	P. Mamathi	19	12
14	U21MB1014	M.Mekala	12	14
15	U21MB1015	M. Nandhini	15	15
16	U21MB1016	A.Pirathibaa	24	23
17	U21MB1017	S. Rakshana	22	24
18	U21MB1018	S. Ramya	17	15
19	U21MB1019	S. Ramya	27	26
20	U21MB1020	G.Rebekka	17	18
21	U21MB1021	M. Roshini	20	20
22	U21MB1022	S. Shanmuga Priya	25	27
23	U21MB1023	K.Sharmi	23	13
24	U21MB1024	E. Sneka	17	AAA
25	U21MB1025	K.Subalakshmi	24	23
26	U21MB1026	V. Swetha	12	14
27	U21MB1027	P. VarshaShalini	10	17
28	U21MB1028	R.S. Varshini	19	10
29	U21MB1029	M. Vinisha	11	18
30	U21MB1030	R. Vishalibharathi	25	23
31	U21MB1031	K.Yazhini	20	16
32	U21MB1032	L.Yogalakshmi	17	AAA
33	U21MB1033	S. Yogeshwari	21	24
34	U21MB1034	B. Yalini	AAA	AAA
35	U21MB2001	N. Abdul Rahman	20	11
36	U21MB2002	A.Ahamed Salman	21	12
37	U21MB2003	E.Akash	21	19
38	U21MB2004	R. Hariharan	23	17
39	U21MB2005	T. Karthikeyan	25	17
40	U21MB2006	A. Mohammed Jaffer	26	22



41	U21MB2007	D. Muthukumar	16	14
42	U21MB2008	A. Pandiyan	AAA	19
43	U21MB2009	R. Ramana	AAA	14
44	U21MB2010	T. Syed Anwar	AAA	7
45	U21MB2011	T. Thurairaj	AAA	AAA
46	U21MB2012	P. Vairamuthu	AAA	13
47	U21MB2013	B. Vasanthakumar	AAA	9
48	U21MB2014	S. Vinodh	24	22
49	U21MB2015	D. Vinoj	AAA	6
50	U21MB2016	A. Vinothkumar	AAA	10
51	U21MB2017	K. Vivekanandan	11	16

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