

J. J. COLLEGE OF ARTS AND SCIENCE (Autonomous)

Sivapuram Post, Pudukkottai.

P.G. & Research Department of Biotechnology

Bridge Course Syllabus (2021-2022)

UNIT 1

Introduction about the college and the department of Biotechnology, Bridging the gap between School and College education, Difference between Semester and non semester patterns.

UNIT 2

University –Bharathidasan University- relevant to courses and exams , Syllabus of the course (B.Sc Biotechnology), Major subject - Allied subjects - Part I, PartII, PartIII and part IV.

UNIT 3

CBCS system-Introduction and Benefits, Credit - Importance/ Advantages - How credits can be earned, Elective and other courses - SBE, MBE, NME, EVS, Gender studies and Value education, Semester Exam-Internal, External - Exam pattern, Model QP, Class attendance Percentage – Condonation.

UNIT 4

NAAC,UGC, Autonomous, Deemed university, Research and Job Opportunities.

UNIT 5

General discipline-Manners-Morals, Behavioars, Respect to the Elders and Teachers, Role of students in college and society, Extracurricular activities- Cum-Skill development.

HEAD OF THE DEPARTMENT

Dr. G. MANIGANDAN, Ph.D.,SET,NET
Head, Department of Biotechnology
J.J. College of Arts and Science (Autonomous)
Pudukkottai - 622 422

PRINCIPAL

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NEPIL, B.Ed., Ph.D.
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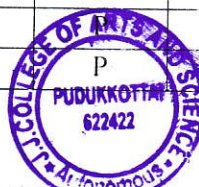
JJ COLLEGE OF ARTS AND SCIENCE COLLEGE (AUTONOMOUS)

DEPARTMENT OF BIOTECHNOLOGY

ACADEMIC YEAR -2021-2022

BRIGDE COURSE ATTENDANCE

S.No.	STUDENTS NAME	27.09.21	28.09.21	29.09.21	30.09.21	01.10.21	04.10.21	05.10.21	06.10.21
1.	AROCKIA BOVUSIYA MARY P.	P	P	P	P	P	P	P	P
2.	ARUNA S.	P	P	P	A	P	P	P	P
3.	BANUMATHI	P	P	P	P	P	P	P	P
4.	BARVEENBANU M.	P	P	P	P	P	P	P	P
5.	DEEPA PUSHPAM I.	P	P	P	P	P	P	P	P
6.	DHANALAKSHMI M.	P	P	P	P	P	P	P	P
7.	DHANALAKSHMI R.	P	P	P	P	P	P	P	P
8.	DHIVYA DHARSHINI T.	P	P	P	P	P	P	P	P
9.	GAYATHRI P.	P	P	P	P	P	P	P	P
10.	GOKILA M.	A	P	P	P	P	P	P	P
11.	HARIPRIYA A.	P	P	P	P	P	P	P	P
12.	INDUMATHI PL.	P	P	P	P	A	P	P	P
13.	JANANI K.	P	P	P	P	P	P	P	P
14.	JEBA VINOLIYA A.	P	P	P	P	P	P	P	P
15.	KALAISELVI S.	P	P	P	P	P	P	P	P
16.	KALAIVANI S.	P	P	P	P	P	P	P	P
17.	KARTHIKA.R	P	A	P	P	P	P	P	P
18.	KARTHIKA K.	P	P	P	P	P	P	P	P
19.	KAVIYA M.	P	P	P	P	P	P	P	P
20.	MARIYA SNEKA C.	P	P	P	P	P	P	A	P
21.	MOHANAPRIYA K.	P	P	P	P	P	P	P	P
22.	NAJULABANU A.	P	P	A	P	P	P	P	P.
23.	NIKITHA K.	P	P	P	P	P	P	P	A
24.	PRAGADEESHWARI P.	P	P	P	P	P	P	P	P
25.	PRIYADARSHINI R.	P	P	P	P	P	P	P	P
26.	RABINA AASLIN L.	P	P	P	P	P	P	P	P
27.	RATHINA R.	P	P	P	P	P	A	P	P
28.	SAMYUKTHA RANI J.	P	P	P	P	P	P	P	P
29.	SWATHI M.	P	P	P	P	P	P	P	P
30.	VALARMATHI S.	P	P	P	P	P	P	P	P
31.	VARSHINI R.	P	P	P	P	P	P	P	P
32.	VIJAYALAKSHMI A.	P	P	P	P	P	P	P	P
33.	VIJAYALAKSHMI R.	P	P	P	P	P	P	P	P
34.	YOGAPRIYA K.	P	P	P	P	P	P	P	P
35.	YUSUF NISHA J.	P	P	P	P	P	P	P	P
36.	ARAVIND P.	P	P	P	P	P	P	P	P
37.	ARULRAJAN A.	P	P	P	P	P	P	P	P
38.	BALASUBRAMANIAM P	P	P	P	P	P	P	P	P
39.	CHANDRAHARI.T	P	P	P	P	P	P	P	P
40.	HARINIVAS M.	P	P	P	P	P	P	P	P
41.	HARISH K	P	P	P	P	P	P	P	P
42.	HARISH S.	P	P	P	P	P	P	P	P
43.	ILAVARASAN .A	P	P	P	P	P	P	P	P
44.	JEGADEESHWARAN M.	P	P	P	P	P	P	P	A



45.	MANOJ N.	P	P	P	P	P	P	P	P
46.	MATHANRAJ S.	P	P	P	P	P	A	P	P
47.	MOHAMED RIZWAN	P	A	P	P	P	P	P	P
48.	PECHIMUTHU J.	P	P	P	P	P	P	P	P
49.	SAI RAJ V.	P	P	P	P	P	P	P	P
50.	SELVAMURUGAN A.	A	P	P	P	P	P	P	P
51.	SHANMUGAVEL B.	P	P	P	P	P	P	P	P
52.	SRIHARI NARAYANAN S.	P	P	P	P	P	P	P	P
53.	SURYA M.	P	P	P	P	P	P	P	P
54.	THIRUMALAINATHAN R.	P	P	P	A	P	P	P	P
55.	VASANTH. R	P	P	P	P	P	P	P	P
56.	VETRIVEL T.	P	P	P	P	P	P	P	P
57.	VIGNESHKUMAR S.	P	P	P	P	P	P	P	P
58.	VIJAYA BASKER R.	P	P	P	P	P	P	P	P
59.	VIKNESH R.	P	P	P	P	P	P	P	P
60.	YOGESH N.	P	P	P	P	P	P	P	P
No. of students present		58	58	59	58	59	58	59	58
No. of students absent		02	02	01	02	01	02	01	02
Signature of staff									

Head of the Department

Dr. G. MANIGANDAN, Ph.D., SET, NET
Head, Department of Biotechnology
J.J. College of Arts and Science (Autonomous)
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Principal

Dr. J. PARASURAMAN, M.A., M.B.A., M.C.,
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**J.J COLLEGE OF ARTS AND SCIENCE, PUDUKKOTTAI
DEPARTMENT OF BIOTECHNOLOGY**

BRIDGE COURSE – PRE TEST (BATCH 2020- 2021)

Date: 27.09.2021

Time: 2 hrs. Marks: 50

PART – A (ANSWAR ALL THE QUESTIONS) (20×1=20)

1. Our college syllabus is being framed by?
(a) J.J College (b) Bharathiyar University (c) Anna University
(d) Bharathidasan University
2. Tuberculosis caused by
(a) Bacteria (b) Virus (c) Algae (d) Fungi
3. *Aspergillus niger* is a
(a) Algae (b) Virus (c) Fungi (d) Bacteria
4. Which pattern does our college follows?
(a) Open University (b) Non – semester (c) Semester
(d) Correspondent
5. Study of immunity
(a) Pathology (b) Immunology (c) Medicine (d) Microbiology
6. Causative agent of Amoebiasis is
(a) *Vibrio Cholerae* (b) *E.coli* (c) HIV (d) *Entamoeba histolytica*
7. Which one of the following is a plant hormone?
(a) Auxin (b) Gibberellins (c) Both a & b (d) None of the above
8. Which of the following is known as the power house of the cell?
(a) Mitochondria (b) ATP (c) Chloroplast (d) Lysosome
9. First class with distinction means scoring?
(a) Above 60% (b) 75% and above (c) Below 75% (d) 50-60%
10. Krebs cycle is also known as?
(a) Calvin Cycle (b) Hill's reaction (c) TCA Cycle (d) Glycolysis
11. The pH range of an acid
(a) 0 (b) 7 (c) 1 - 6.9 (d) 7.1 - 14
12. Who first developed vaccine for Rabies?
(a) Robert Koch (b) Edward Jenner (c) Alexander Flemming
(d) Louis Pasteur
13. Double helical structure of DNA was discovered by
(a) Watson & Crick (b) Griffith (c) Mendel (d) Morgan
14. Sterilization is nothing but of Microbes
(a) Killing (b) Growth (c) Inactivation (d) Culturing

15. Blood cancer is referred as
(a) Sarcoma (b) leukemia (c) Carcinoma (d) None of the above

16. Glucose is a
(a) Amino acid (b) Protein (c) Carbohydrate (d) lipid
17. Numbers of chromosome in humans
(a) 48 (b) 46 (c) 44 (d) 42
18. Color blindness caused due to the deficiency of
(a) Vitamin A (b) Vitamin B (c) Vitamin K (d) Vitamin D
19. Name the pigment involved in photosynthesis
(a) Chlorophyll (b) Xanthophylls (c) chloroplast (d) chromosome
20. Increase in earth's temperature is referred as
(a) Acid rain (b) Green house effect (c) Hearing (d) Global warming

PART – B (ANSWER ALL THE QUESTIONS) (10×3=30)

1. What is bridge course?
2. AIDS
3. Define Biotechnology and explain about the scope of Biotechnology
4. What is Cloning?
5. List out the global environmental problems
6. Write short notes on laboratory rules and regulation
7. Draw the structure of plant and animal cell and label the parts
8. What is higher education and education at degree level?
9. Brief note on general discipline, mannerisms, morals and behaviors
10. Define Vaccine

G. Manigandan

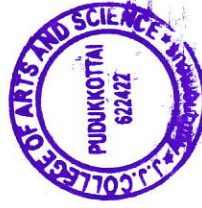
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G. Parasaraman

**J.J.PARASURAMAN, M.A.,M.B.A.,M.C.A.,
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**J.J. COLLEGE OF ARTS AND SCIENCE (AUTONOMOUS)
DEPARTMENT OF BIOTECHNOLOGY
BRIDGE COURSE: POST- TEST (UG BATCH 2021-2022)
DATE 06-10-21 MARKS: 50 TIME: 2 HRS.**

PART - A (ANSWER ALL THE QUESTIONS) (20×1=20)

1. CBCS Mean
(a) Choice based credit system (b) credit based choice system
(c) Credit based Credit system (d) Choice based criteria system
2. Study of insects
(a) Microbiology (b) Zoology (c) Biochemistry
(d) Entomology
3. Immunology deals with
(a) Metabolism (b) Diseases (c) Immunity
(d) None of the above
4. Who is father of Immunology?
(a) Robert Koch (b) Edward Jenner (c) Alexander Flemming (d) Louis Pasteur
5. Causative agent of typhoid
(a) *Vibrio cholera* (b) *E. Coli*
(c) *Salmonella typhi* (d) *entamoeba histolytica*
6. Study of Microorganisms
(a) Pathology (b) Immunology (c) Microbiology (d) Zoology
7. DNA is
(a) Deoxyribonucleic acid (b) ribonucleic acid
(c) Phosphoric acid (d) all the above
8. pH of stomach is
(a) 1 (b) 2 (c) 3 (d) 4
9. Protein are made up of
(a) Amino Acid (b) Acetic Acid (c) Hydrochloric acid
(d) Sugar
10. Chloroplast present in
(a) Plant cell (b) Animal cell (c) Bacteria (d) Fungi
11. Type of RNA
(a) mRNA (b) tRNA (c) rRNA (d) All the above
12. Name the material used for cultivation of microbes
**D.J.PARASURAMAN, M.A., M.B.A., M.C.A.,
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- (a) Growth factors (b) Medium (c) Nutrients
(d) All the Above
13. IA is based on
(a) Attendance (b) Discipline (c) Model Exam Marks
(d) All the above
14. Which pattern does our college follows
(a) Open University (b) Non - Semester (c) Semester
(d) Correspondent
15. Which Council regulates Arts & Science College in india
(a) AICTE (b) AIMS (c) IIM (d) UGC
16. Glucose is a
(a) Vitamin (b) Protein (c) Lipid (d) Carbohydrate
17. Lab coat is otherwise called
(a) Operon (b) Apron (c) Gloves (d) Mask
18. r-DNA technology also known as
(a) Genetics (b) Genetic engineering (c) Tissue engineering
(d) None of the above
19. DNA Double helix discovered by
(a) Watson and Crick (b) Alexander Flemming
(c) Charles Darwin (d) Gregor Mendel
20. *E.coli* is a
(a) Virus (b) Bacteria (c) Algae (d) Fungi

PART -B (ANSWER ALL THE QUESTIONS) (10×3=30)

21. Define Cell biology
22. Write down the various branches of biotechnology
23. Write the scope of biotechnology
24. What is GPA?
25. What are the components of a cell?
26. Differentiate the learning experience of the school and college.
27. What did you learn from the bridge course?
28. What are microbes?
29. Write short notes on sterilization
30. What is Vitamin A?



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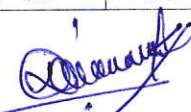
J. J. COLLEGE OF ARTS AND SCIENCE (Autonomous)
Sivapuram Post, Pudukkottai.
P.G. & Research Department of Biotechnology
ACADEMIC YEAR -2021-2022

MARK STATEMENT

S.No.	STUDENTS NAME	PRE TEST (50)	POST TEST (50)
1.	A ROCKIA BOVUSIYA MARY P.	35	38
2.	ARUNA S.	33	36
3.	BANUMATHI	29	32
4.	BARVEENBANU M.	39	41
5.	DEEPA PUSHPAM I.	22	25
6.	DHANALAKSHMI M.	26	29
7.	DHANALAKSHMI R.	37	39
8.	DHIVYA DHARSHINI T.	32	37
9.	GAYATHRI P.	29	33
10.	GOKILA M.	33	38
11.	HARIPRIYA A.	36	39
12.	INDUMATHI PL.	39	43
13.	JANANI K.	36	40
14.	JEBA VINOLIYA A.	40	42
15.	KALAISELVI S.	29	35
16.	KALAIVANI S.	34	37
17.	KARTHIKA R.	36	39
18.	KARTHIKA K.	32	38
19.	KAVIYA M.	36	39
20.	MARIYA SNEKA C.	37	39
21.	MÖHANAPRIYA K.	28	35
22.	NAJULABANU A.	42	45
23.	NIKITHA K.	29	38
24.	PRAGADEESHWARI P.	35	39
25.	PRIYADARSHINI R.	33	37
26.	RABINA AASLIN L.	37	39
27.	RATHINA R.	28	33
28.	SAMYUKTHA RANI J.	39	42
29.	SWATHI M.	36	40
30.	VALARMATHI S.	33	38
31.	VARSHINI R.	32	39
32.	VIJAYALAKSHMI A.	37	39
33.	VIJAYALAKSHMI R.	31	35



34.	YOGAPRIYA K.	37	39
35.	YUSUF NISHA J.	39	43
36.	ARAVIND P.	29	35
37.	ARULRAJAN A.	32	36
38.	BALASUBRAMANIAM P	38	39
39.	CHANDRAHARI.T	32	37
40.	HARINIVAS M.	38	41
41.	HARISH K	31	38
42.	HARISH S.	33	36
43.	ILAVARASAN .A	38	41
44.	JEGADEESHWARAN M.	29	35
45.	MANOJ N.	37	41
46.	MATHANRAJ S.	31	38
47.	MOHAMED RIZWAN	28	33
48.	PECHIMUTHU J.	36	39
49.	SAI RAJ V.	29	35
50.	SELVAMURUGAN A.	41	43
51.	SHANMUGAVEL B.	37	41
52.	SRIHARI NARAYANAN S.	42	44
53.	SURYA M.	29	34
54.	THIRUMALAINATHAN R.	33	39
55.	VASANTH. R	30	37
56.	VETRIVEL T.	31	35
57.	VIGNESHKUMAR S.	36	41
58.	VIJAYA BASKER R.	31	37
59.	VIKNESH R.	39	40
60.	YOGESH N.	28	36


(L. VIVEKANANDAN)

- STAFF INCHARGE


HEAD OF THE DEPARTMENT


PRINCIPAL

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