



KLE Society's
S. NIJALINGAPPA COLLEGE

II-Block, Rajajinagar, Bengaluru-10
Re-accredited by NAAC at A⁺ grade with 3.53 CGPA
College with UGC-STRIDE Component – I

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Department of Biotechnology

E- Learning resources Developed by faculty - 2020-21 - Total = 80

Sl. No.	E Content - Concept details	Content Available at College Website
1.	BIOTECHNOLOGY paper V & VI practical scheme with expected viva questions & spotters of BU 2019	https://youtu.be/mUS0wtEL4WI
2.	Denaturation of Proteins -Part 2	https://youtu.be/-SI9hjkPAUU
3.	Isolation of genomic DNA from plant tissue-cauliflower (Paper V Genetic Engineering & EBT	https://youtu.be/WcN9h__Cnps
4.	Lipids – Introduction ,Classification	https://youtu.be/WHqbr8Liuq4
5.	Spotters of Biotechnology paper V & VI (Genetic Engineering & EBt /Immunology & ABt)	https://youtu.be/JLuuDys5rfw
6.	Proteins Peptides Part 3	https://youtu.be/iCJL7Cqdwgw
7.	Amino acids-Introduction and Classification of amino acids	https://youtu.be/td-26HsZVdk
8.	Bangalore University Model Question paper -Fourth semester “Personality development ”Noncore Paper	https://youtu.be/QTa92My604Q
9.	Proteins -Chemical bonds-(part -4)	https://youtu.be/dwB9NHenDUg
10.	Proteins- peptide Bond	https://youtu.be/MsIRfdy3F5g
11.	Structure of genes and properties of Codons	https://youtu.be/7SxM00KWWBk
12.	Introduction to Blood :Part-1	https://youtu.be/GUUrz0cXOTM
13.	Lipids :properties of lipids	https://youtu.be/0Hop--LR8Q4
14.	Second Year Biochemistry and Biophysics University Question Paper.(Biotechnology)	https://youtu.be/qLGiADiVx5o
15.	Bangalore University Question Paper ,Immunology & Animal Biotechnology	https://youtu.be/H-HYyhbWWzA

	,Paper VI	
16.	University Question Paper, Biotechnology ,Genetic Engineering & Environmental Biotechnology	https://youtu.be/FwNsvKA3uMM
17.	Enzymes: What are active site	https://youtu.be/uOXCnneyRog
18.	Introduction to Proteins and Classification of Proteins-Part 1. KLESNC	https://youtu.be/alzds97KLYE
19.	Enzymes: Factors Influencing Enzyme Activity	https://youtu.be/NabibEI3IDU
20.	Estimation Of Glucose By DNS Method. Biochemistry and Biophysics	https://youtu.be/jSg7x8uWalM
21.	Red Blood Corpuscles(RBC) :part 2	https://youtu.be/aBJRTqJq4KY
22.	Chemical Properties Of Amino acids & Biological Importance Of A monoacids	https://youtu.be/ZqyOO9S1BfE
23.	Biochemistry and Biophysics important Questions	https://youtu.be/2d9u63-Sch4
24.	Proteins Secondary structure -Alpha helix and Beta pleated sheet part-7	https://youtu.be/KyOfmgGtEN4
25.	Lipids-Nomenclature of lipids	https://youtu.be/HZunVz-bdUQ
26.	Q & A Of Proteins And Chromatography	https://youtu.be/4q-TA-111B4
27.	Enzymes-Definition, general characters-enzymes,6 major classes of enzymes, classification	https://youtu.be/uYdTnKiMx_0
28.	Biochemistry Paper important questions	https://youtu.be/TduCJ9dz7iA
29.	Biochemistry Paper important questions	https://youtu.be/TduCJ9dz7iA
30.	Bangalore University Model Question paper -Fourth semester "Personality development "Noncore Paper	https://youtu.be/Z77c8zIL05M
31.	Proteins-Tertiary Structure. part -8	https://youtu.be/UyJuNu7DcKY
32.	AMINOACIDS- ZWITTER ION & ISOELECTRIC POINT	https://youtu.be/p8S5hZi1yO8
33.	Paper 3,Biochemistry & Biophysics .Biotechnology Paper Semester III,Bangalore University syllabus	https://youtu.be/YNrSua9DxV0
34.	Bangalore University CBCS, Practical Syllabus B.Sc Biotechnology IIISem	https://youtu.be/hgjCnePWinU

	Biochemistry & Biophysics	
35.	Introduction to Genetic Engineering/Recombinant DNA Technology	https://youtu.be/XOs1wbZLWwE
36.	Physical Properties of Amino acids	https://youtu.be/zL9yRofQeOI
37.	Proteins -Quaternary Structure. Part -9	https://youtu.be/4zV0Y8LJ4do
38.	Estimation Of Proteins By Biuret Method	https://youtu.be/nh7nD9TWmL8
39.	Lipids –Spreading of fatty acids & Essential and Non essential fatty acids	https://youtu.be/YAG5ZCM8QC0
40.	Lipids –Triacylglycerides / Tryacylglycerols neutral fats	https://youtu.be/HwRk6JkJAsc
41.	Proteins structural Organisation - Introduction (part -5)	https://youtu.be/A9crbVQhRFc
42.	Paper VI , Immunology and Animal Biotechnology BU Syllabus for Third year Biotechnology	https://youtu.be/96S20x9UVRI
43.	Bangalore University CBCS, Practical Syllabus B.Sc Biotechnology VSem Genetic Engineering & EBT	https://youtu.be/hqJwvmlEorM
44.	Lipids –Oils and Fats,Waxes	https://youtu.be/4atCchbN7QQ
45.	Blood :White Blood Corpuscles (WBC) - Part 3	https://youtu.be/0bHbRbIIRTK
46.	VI SEM B.Sc. BU Biotechnology Practical Examination Spotters of BTP-604 Industrial Biotechnology.	https://youtu.be/x46JnlxVTZY
47.	Lipids -Simple lipids	https://youtu.be/hUn6Bmjiv_o
48.	ABO Blood grouping :part-4	https://youtu.be/dlFQY3YKT58
49.	Chromatography -Introduction, Paper chromatography	https://youtu.be/hehE3wV9FDE
50.	Isolation of the parenchymal cells from the given sample sheep Liver	https://youtu.be/fPfAZU-hStY
51.	Paper V -Genetic Engineering and Environmental Biotechnology BU Syllabus for Biotechnology students	https://youtu.be/NqSS_Zx6XGo
52.	Blood Grouping /Blood Typing	https://youtu.be/obwjnFFq1zY
53.	Antibody/Immunoglobulin –structure and	https://youtu.be/afebiZ84MB0

	types part-2	
54.	Introduction to Antibodies and types Part-1	https://youtu.be/VW4gBlUCh3k
55.	Immunology & Animal Biotechnology : important Questions	https://youtu.be/CMEN21kIvJQ
56.	Blood typing Experiment -Paper VI Immunology & Animal Biotechnology	https://youtu.be/BmE9sZ0o1A
57.	K L E Collage dept of Biotechnology organised popular indian ethnic nutrition food Mela	https://youtu.be/GPjOU3xvT84
58.	Chemical Nature of Enzymes	https://youtu.be/FYVL_hNAKiE
59.	Antibody –structure & functions of Ig E	https://youtu.be/kKVTvKp5AW8
60.	Seminar on Carbohydrates- Mr.Nikil Vamshi under the guidance of Dr.Prathibha.K.S KLESNC13/09/2020	https://youtu.be/NP4iJ-daVEs
61.	BANGALORE UNIVERSITY, BSc Biotechnology-paper 8, Industrial biotechnology Question paper	https://youtu.be/J3b8C0bxA0w
62.	Antibody –structure & functions of Ig A	https://youtu.be/Kg_1t2ycLek
63.	Antibody –structure & functions of Ig G	https://youtu.be/3jsO58gJusw
64.	Bacterial Examination of water by MPN Method or test	https://youtu.be/tNmrrYXvrLg
65.	Antibody –structure & functions of Ig M	https://youtu.be/kVFZiW33YhQ
66.	Study of mitosis :Squash preparation of onion root tips for the study of mitotic stages	https://youtu.be/NTMA5BHWXQI
67.	Human Karyotype and Human Genetic disorder.Part-1	https://youtu.be/_38QyxnQ14U
68.	Quick look on Cell Division - MITOSIS	https://youtu.be/51gsWBFFHBw
69.	Antibody -Structure and functions of IgD	https://youtu.be/jJ2KZYW3BO0
70.	VI SEMESTER B.Sc.BU Biotechnology Practical Examination Scheme BTP-602 Plant Biotechnology.	https://youtu.be/sT2oPLMgGsA
71.	Spotters of Biotechnology practical paper VII -Plant Biotechnology (Bangalore University)	https://youtu.be/HIn0V40XTKs
72.	Cell biology, Genetics and Biochemistry	https://youtu.be/t7xKgk_b9bw

	important questions	
73.	Bioleaching .Seminar By Miss .Ramya.D IICZBt KLESNC	https://youtu.be/4_RvVcZ6e_A
74.	V Sem B.Sc Examination, November/December 2018 (F+R/CBCS) Immunology and Animal Biotechnology. Q & A	https://youtu.be/xU61-8szMf0
75.	Transformation of Recombinant DNA - Calcium Chloride method, Electroporation and Microinjection	https://youtu.be/std3DO-PMBU
76.	Restriction Enzymes .Type I ,Type II & Type III	https://youtu.be/NIJ4UKcyomQ
77.	PCR and its mechanism	https://youtu.be/24FTjcHRI5Y
78.	Microbiology study material	https://youtu.be/i5jIUHer3CE
79.	Seminar talk on ENZYMES by Miss.ANJALI from second year CZBt ,KLESNC on 17/01/2021	https://youtu.be/0pATyxzfN_w
80.	OUCHTERLONY DOUBLE DIFFUSION (ODD)	https://youtu.be/kqoXCcOMcAE



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E- Learning resources Developed by faculty - 2019-20 - Total =25

Sl. No.	E Content -Concept Details	Content Available at College Website
1.	Endospore Staining	https://youtu.be/6Q5NQwyElfY
2.	Estimation of Citric Acid	https://youtu.be/vB0j-2qqJZM
3.	Estimation of Lactic Acid	https://youtu.be/t8WEGMpbtJM
4.	Antibiotic Sensitivity Test	https://youtu.be/XQY2q7ccB-w
5.	Catalase Test	https://youtu.be/W3y5uEkB7Wo
6.	Starch Hydrolysis Test	https://youtu.be/egqWaMHXPZE
7.	Gelatin Hydrolysis test	https://youtu.be/YhtbTq0J_vM
8.	Gram Staining	https://youtu.be/ffctsfqcdnY
9.	Estimation of Alcohol by Specific Gravity Method	https://youtu.be/0vq5zvQhY5w
10.	Pie Chart Percentage Bar Diagram	https://youtu.be/57_Xa5pAw3E
11.	Autoclave, Hot Air Oven	https://youtu.be/sxoGy13CH0Q
12.	Measures of Central Tendency	https://youtu.be/TQePQVPX280
13.	Anther Culture	https://youtu.be/QmSZRxTYVHI
14.	In-vitro production of secondary metabolites, VI Sem	https://youtu.be/-HQWenh9fQc
15.	IPR, Intellectual Property Rights	https://youtu.be/gvy_3An4oDE
16.	Structure of genes and properties of Codons	https://youtu.be/7SxM00KWWBk
17.	Biotech, Paper 6 Immunology & ABT theory paper with answers	https://youtu.be/GM7XEI39Wtc
18.	Estimation of Lactic acid in the given milk sample	https://youtu.be/VNm1FppeY5s
19.	Graphical representation of Data	https://youtu.be/kz1Z15sIjHl
20.	Ovary culture 1	https://youtu.be/OHcHtc6L3P8
21.	Transcription in prokaryotes IV Sem	https://youtu.be/oGQ_oy0GaXw
22.	Preparation of synthetic Seeds/artificial Seeds	https://youtu.be/DVHaMST8gZ0
23.	Plant Growth Regulators	https://youtu.be/h6wFdFvVwtU
24.	PBT -Embryo culture	https://youtu.be/DICCj9dc3KM
25.	Plant biotechnology	https://youtu.be/R2D9_ZKrhHQ