

School of Life Sciences

B.Sc. Biotechnology Semester IV Major Assignment

Important Instructions to Student:

- 1. Last date for Assignment Submission **30-May-2020**
- 2. This assignment carries major **weightage of 50 Marks**. Kindly prepare it very carefully and in a very detailed manner. For any help in this regard, kindly contact your faculties.
- 3. Front Page of Assignment should clearly include details like:
 - a. Your Name
 - **b.** UID Number
 - c. Subject
 - **d.** Class
 - e. Semester

In the event of no such information, we may not be able to assign marks for your assignment, for which responsibility lies with students.

- 4. You can write and submit assignment through any of the following options:
 - a. Handwritten Assignment Prepare softcopy of your assignment through suitable apps and send the assignment as one PDF to your respective faculty as mentioned above.
 - b. Typed Assignment Prepare Assignment with following font setting and submit the assignment to your respective faculty as mentioned above.
 - i. Font Type Times New Roman or Arial
 - ii. Headings Font Size 14
 - iii. Text (Except Heading) 12
 - iv. Normal Margin and Line Spacing maximum 1.15
- 5. After this lockdown ends, you all have to submit the physical assignment copies to your respective Faculties. So, keep the assignment carefully for submission.
- 6. While submitting assignment through email, kindly use subject line as Name of the Programe_Name of Course/Branch_Semester_Name o the the Subject. For Example B.Tech._Mechanical_IV_Theory of Machines



	energetics and	Mode of Submission: Googel form only-
metabolism-		https://forms.gle/UuDCGiZxFoZYLx7t5
Prof	f. Afsana Dholakiya	Email: afsana.dholakiya@raiuniversity.edu
		Subject Line: B.Sc. BT IV BAM
1.	Explain: glucose metaboli	sm.
2	Explain the TCA cycle wi	th structure.
3.	A. Define: Entropy, Entha	lpy, Free Energy change, oxidation and reduction reaction.
	B. Briefly explain the End	ergonic and Exergonic reaction with examples.
4.	Describe about metabolism of amino acid.	
5.	Describe about catabolism and anabolism in detail with example.	
Gen	omics and proteomics-	Mode of Submission : Google form only-
Prof	f. Afsana Dholakiya	https://forms.gle/hHtZgb4oTBGMdwjx5
		Email – afsana.dholakiya@raiuniversity.edu
		Subject Line: B.Sc. BT & B.Tech. BT IV
1.	Explain protein structure l	nierarchy in detail.
2.	Explain process of protein folding.	
3	Explain protein analysis techniques principle, procedure and application of SDS-PAGE and	
	gel electrophoresis	
4	Write your view on correlation of genomics and bioinformatics.	
5.	What is gene prediction? I	Explain methods and tools for it.
-	sical Chemistry	Mode of Submission: Email
Prof	C. D ' D '	
	f. Ravi Prajapati	Email: ravi.prajapati@raiuniversity.edu
		Subject Line: B.Tech. BT IV
1.		
		Subject Line: B.Tech. BT IV theory of unimolecular reaction.
1.	Describe the Lindeman's a Explain the formation of c	Subject Line: B.Tech. BT IV theory of unimolecular reaction.
1. 2.	Describe the Lindeman's a Explain the formation of c	Subject Line: B.Tech. BT IV theory of unimolecular reaction. colloid. netic molecules theory of gases.
1. 2. 3	Describe the Lindeman's a Explain the formation of c Explain in detail about kir Explain kinetic & optical	Subject Line: B.Tech. BT IV theory of unimolecular reaction. colloid. netic molecules theory of gases.
1. 2. 3 4	Describe the Lindeman's a Explain the formation of c Explain in detail about kir Explain kinetic & optical	Subject Line: B.Tech. BT IV theory of unimolecular reaction. colloid. netic molecules theory of gases. properties of colloid.
1. 2. 3 4 5.	Describe the Lindeman's a Explain the formation of c Explain in detail about kir Explain kinetic & optical	Subject Line: B.Tech. BT IV theory of unimolecular reaction. colloid. netic molecules theory of gases. properties of colloid.
1. 2. 3 4 5. Ferr	Describe the Lindeman's a Explain the formation of c Explain in detail about kin Explain kinetic & optical a Explain the deviation from	Subject Line: B.Tech. BT IV theory of unimolecular reaction. colloid. netic molecules theory of gases. properties of colloid. n Van der Waal's equation.
1. 2. 3 4 5. Ferr	Describe the Lindeman's and Explain the formation of content of Explain in detail about king Explain kinetic & optical Explain the deviation from the mentation Technology	Subject Line: B.Tech. BT IV theory of unimolecular reaction. colloid. netic molecules theory of gases. properties of colloid. n Van der Waal's equation. Mode of Submission: Google Form
1. 2. 3 4 5.	Describe the Lindeman's and Explain the formation of context. Explain in detail about king Explain kinetic & optical and Explain the deviation from the mentation Technology for the Roban R. Parmar	Subject Line: B.Tech. BT IV theory of unimolecular reaction. colloid. netic molecules theory of gases. properties of colloid. n Van der Waal's equation. Mode of Submission: Google Form Link: https://forms.gle/M67KyqpN4qt2Vq4n9 Email: N/A Subject Line: B.Tech. BT IV FT
1. 2. 3 4 5. Ferm	Describe the Lindeman's and Explain the formation of context. Explain in detail about king Explain kinetic & optical and Explain the deviation from the mentation Technology for the Roban R. Parmar	Subject Line: B.Tech. BT IV theory of unimolecular reaction. colloid. netic molecules theory of gases. properties of colloid. n Van der Waal's equation. Mode of Submission: Google Form Link: https://forms.gle/M67KyqpN4qt2Vq4n9 Email: N/A
1. 2. 3 4 5. Ferr	Describe the Lindeman's at Explain the formation of context. Explain in detail about king Explain kinetic & optical at Explain the deviation from Explain Technology and Technology and Technology are at Explain the deviation from Explain Technology and Technology are at Explain the deviation from Explain the deviation	Subject Line: B.Tech. BT IV theory of unimolecular reaction. colloid. netic molecules theory of gases. properties of colloid. n Van der Waal's equation. Mode of Submission: Google Form Link: https://forms.gle/M67KyqpN4qt2Vq4n9 Email: N/A Subject Line: B.Tech. BT IV FT of filtration in downstream processing. physio-mechanical methods of cell disruption.
1. 2. 3 4 5. Ferr	Describe the Lindeman's at Explain the formation of context. Explain in detail about king Explain kinetic & optical at Explain the deviation from Explain Technology and Technology and Technology are at Explain the deviation from Explain Technology and Technology are at Explain the deviation from Explain the deviation	Subject Line: B.Tech. BT IV theory of unimolecular reaction. colloid. netic molecules theory of gases. properties of colloid. n Van der Waal's equation. Mode of Submission: Google Form Link: https://forms.gle/M67KyqpN4qt2Vq4n9 Email: N/A Subject Line: B.Tech. BT IV FT of filtration in downstream processing.
1. 2. 3 4 5. Ferr Prof	Describe the Lindeman's at Explain the formation of context. Explain in detail about king Explain kinetic & optical at Explain the deviation from Explain Technology and Technology and Technology are at Explain the deviation from Explain Technology and Technology are at Explain the deviation from Explain the deviation	Subject Line: B.Tech. BT IV theory of unimolecular reaction. colloid. netic molecules theory of gases. properties of colloid. n Van der Waal's equation. Mode of Submission: Google Form Link: https://forms.gle/M67KyqpN4qt2Vq4n9 Email: N/A Subject Line: B.Tech. BT IV FT of filtration in downstream processing. physio-mechanical methods of cell disruption. of commercial media for industrial fermentation



Imm	unology-I	Mode of Submission: Google classroom
Dr. Swapnaja Mahajan		Class code 446xmuz
		https://classroom.google.com/w/NTUzMTcxODczOTda/tc/MTI1Nj
		A0MTg4Mjc3
		Subject Line: BTECH BT IV Immunology I
1.	Explain phygocytosis	
2.	A) Write short note on Igo	G with structure.
	B) Write short note on Ig	M with structure
3	Explain requirements for	antigenicity
4.	Describe action of antibody	
5.	Described MHC molecules with appropriate diagram	
Engl	ish Communication and	Mode of Submission: Email
Life	Skills – IV	Email – rbs.raiuniversity@gmail.com
Liic	SKIIIS – I V	Eman – ros.raiumversity@gman.com
	. Rakhi Pandey	Subject Line: B. Sc. Microbiology IV ECLS-IV
		Subject Line: B. Sc. Microbiology IV ECLS-IV
Prof.	Rakhi Pandey	Subject Line: B. Sc. Microbiology IV ECLS-IV uses In Detail
Prof.	Rakhi Pandey Explain All Forms Of Ten	Subject Line: B. Sc. Microbiology IV ECLS-IV uses In Detail u Building In Detail
Prof. 1. 2.	Explain All Forms Of Ten Explain 4 Stages Of Team	Subject Line: B. Sc. Microbiology IV ECLS-IV uses In Detail u Building In Detail
Prof. 1. 2.	Explain All Forms Of Ten Explain 4 Stages Of Team Explain The Following In	Subject Line: B. Sc. Microbiology IV ECLS-IV uses In Detail u Building In Detail
Prof. 1. 2.	Explain All Forms Of Ten Explain 4 Stages Of Team Explain The Following In a. Panel interview	Subject Line: B. Sc. Microbiology IV ECLS-IV uses In Detail u Building In Detail
Prof. 1. 2.	Explain All Forms Of Tent Explain 4 Stages Of Team Explain The Following In a. Panel interview b. Group interview	Subject Line: B. Sc. Microbiology IV ECLS-IV uses In Detail u Building In Detail
Prof. 1. 2.	Explain All Forms Of Ten Explain 4 Stages Of Team Explain The Following In a. Panel interview b. Group interview c. Stress interview	Subject Line: B. Sc. Microbiology IV ECLS-IV uses In Detail uses In Detail terview:
Prof. 1. 2.	Explain All Forms Of Tent Explain 4 Stages Of Team Explain The Following In a. Panel interview b. Group interview c. Stress interview d. Exit interview	Subject Line: B. Sc. Microbiology IV ECLS-IV uses In Detail Building In Detail terview:

NOTE: After completing your assignments, contact your respective faculty member and submit the assignment for assessment.