Α	(Printed Pages 3)									
(2062	2) Roll No									
B.Sc.(Bio-Tech.)-I Year										
NS-3456 (N)										
B.Sc. (Biotechnology)										
Examination, June-2022										
BIOPHYSICS										
(B-102)										
(New)										
(B.Sc. Biotech)										
Time: Three Hours] [Maximum Marks: 50										
Note	Attempt any five questions. All									
	questions carry equal marks.									
1. G	ive biophysical principle of surface									
tension and diffusion. 10										
2. Explain the physics of followings 2×5										
(a) Biophysics of water										
(t) Ultrafiltration									
P.T.O.										
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(a) Membrane potential (neurotransmission)										
of it in biophysics? 10 4. Explain the followings: 2×5 (a) pKa (b) Creatine phosphate 5. What are the stages of photosynthesis in plants. Explain the strategies of light reception in microbes. 10 6. Briefly explain stereoisomerism and chirality. 10 7. How the physics explain the formation of image in eye, explain with diagram. 10 8. Give short notes on: 2x5 (a) Membrane potential (neurotransmission)	3.	Wh	at	is	lst	and	IInd	law	of	
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chirality. 10 7. How the physics explain the formation of image in eye, explain with diagram. 10 8. Give short notes on: 2x5 (a) Membrane potential (neurotransmission)		rec	eptic	on in	micr	obes.			10	
 How the physics explain the formation of image in eye, explain with diagram. 10 Give short notes on: 2x5 (a) Membrane potential (neurotransmission) 	6.	Brie	efly	exp	lain	stered	oisome	rism	and	
image in eye, explain with diagram. 10 8. Give short notes on: 2x5 (a) Membrane potential (neurotransmission)		chir	ality	.					10	
8. Give short notes on: 2x5 (a) Membrane potential (neurotransmission)	7.	Hov	v the	phy	sics e	explain	the fo	rmatio	n of	
(a) Membrane potential (neurotransmission)		ima	ge ii	n eye	e, exp	olain w	ith dia	gram.	10	
(neurotransmission)	8.	Give	e sho	ort n	otes (on:			2x5	
		(a)	Me	mbra	ane			pote	ntial	
(b) Electrical property of membrane			(ne	urot	ransr	nission	1)			
(=, =,==:,== p,=p=:,=, =:=:====		(b)	Ele	ctric	al pro	perty	of men	nbrane	2	

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9.	Expl	ain	the	biomechanics	of	striated
	mus	cle.				10
10.	Give	bri	ef no	tes on the follo	wing	10
	(s)	Sy	napse	2		
	(b)	Sig	jnal t	ransduction		

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