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PB-12-2024

FACULTY OF SCIENCE

B.Sc. (First Year) (First Semester) EXAMINATION

APRIL/MAY, 2024

(New Course)

BIOTECHNOLOGY

(Basic of Bioscience)

(Saturday, 06-04-2024)	Time: 10.00 a.m. to 1.00 p.m
Time—3 Hours	Maximum Marks—78
Note:— (i) All questions are compul	sory.
(ii) Draw a neat and well la	abelled diagram wherever necessary.
1. Explain Whittaker's fire kingdom	system with merits and demerits. 15
	Or
(a) Prokaryotic cell	\$ 15 PC 50 PC
(b) Eukaryotic cell.	The state of the s
2. Describe seed, seed development st	tructure, germination and control of seed
germination.	15
	Or A S
(a) Write a note on T.S. monoc	eot root.
(b) What is fruit? Describe type	pes of fruit.

WT			8	2		PB–	-12-2024
3.	Write	a note on nuclear a	nd em	bryo trans	splantation	with exam	ple. 15
				Or			
	Write	on the following:					
	(a)	Vermiculture					8
	(<i>b</i>)	Male reproductive s	ystem.				7
4.	Expla	n effect of environme	ent on	growth an	d prevention	n of fungal	growth in
	detail						15
				Or			
	Write	on the following:					
	(a)	Nutrition					8
	<i>(b)</i>	Reproduction.					7
5.	Write	notes on (any three)). 				15
	(<i>i</i>)	Ultra structure of t	ypical	fungal cel			
	(ii)	Poultry farming					
	(iii)	Gestation					
	(iv)	Diversity of living v	vorld				
	(<i>v</i>)	Flower.					

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Playing.

PB-01-2024

FACULTY OF SCIENCE

B.Sc. (First Year) (First Semester) EXAMINATION APRIL/MAY, 2024

(New Course)

BIOTECHNOLOGY

 $(Functional\ English)$

(Tuesday, 02-04-2024)	Time: 10.00 a.m. to 1.00 p.m.
Time—3 Hours	Maximum Marks—75
$oldsymbol{Note}:=(i) All ext{ questions are compulsory.}$	30 Alac
(ii) All questions carry equal marks.	Res Abili
1. Explain various word formation processes w	ith examples. 15
Or	A (S)
(A) Analyse free morpheme with example	es. 7
(B) State Morphological Analysis of:	8
(i) Developmental	TBO, DIE,
(ii) Decolonization	\$ 100°C
(iii) Nationalism	1867
(iv) Commonwealth.	
2. Define 'Role Playing' and mention the skills	that can be developed by Role

15

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WT		PB—01—2024
	Or	40
(A)	Discuss close word classes.	7
(B)	Mention dos and dont's of group discussion.	8
3. Wha	at is a Phrase? State types and their functions.	15
AET.	or or	67
(A)	Spot the errors and rewrite correct sentences:	7
860	(1) I take my the lunch at 2:00 p.m.	3.00°
20	(2) Mumbai is a largest city of India.	47
× 29	(3) There is many rain in winter.	Si Albar
(i)	(4) This books are very important.	
29°	(5) All peoples have gathered here.	RO'S
S C	(6) Everyone have to take National pledge.	E 18631
78	(7) The children is going to school.	No.
(B)	Do as directed:	8
1	(1 to 4 : Change the voice)	b ^x
O P	(1) Many people are developing theories.	
260	(2) Don't smoke in the public place.	
	(3) Will they complete it before deadline?	
5187185T	ANSTRON TRANSPORTER	
	St. 82	

(4) The Zebra was attacked by the lion. (5 to 8: Change the Narration) (5) My brother said to Tim, "You have to practice more". (6) John said to his sister, "Don't follow me, now". (7) "What a terrible sight it is!" said the traveller. (8) My mother asked, "Will you come home by tomorrow 4. What is business report? Mention steps to draft a business report Or (A) Write a letter to your friend congratulating him for his success Exam. (B) Write an essay on 'students should get limited access internet. 5. Write short notes on any three:	t. 15
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(B) Write an essay on 'students should get limited access internet.	7
(B) Write an essay on 'students should get limited access internet.	1
internet.	
	to the
5. Write short notes on any three:	8
	15
, x , y , y , y , x , x , x , x , x , x	
(a) Bound morpheme	
(b) Skills needed for GD	
(c) Seminar	
(d) Articles	
(e) Resume.	
(c) Ivesume.	
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PB-06-2024

FACULTY OF SCIENCE

B.Sc. (First Year) (First Semester) EXAMINATION APRIL/MAY, 2024

(New Course)

BIOTECHNOLOGY

(Introduction to Biotechnology)

(Thursday, 04-04-2024) Tin	ne : 10.00 a.m. to 1.00 p.m.
Time—3 Hours	Maximum Marks—75
Note :— (i) All questions are compulsory.	
(ii) All questions carry equal marks.	
(iii) Draw neat diagram wherever necessary	y.
1. What are transgenic plants? Describe in detail	transgenic plants. 15
Or Or	
(a) Describe in detail Biopesticides.	8
(b) Explain in brief plant tissue culture.	7
2. Describe in detail transgenic animal and their a	applications. 15
(a) What is monoclonal antibodies? Explain Mon	noclonal antibodies in detail.
	8
(b) Explain in brief stem cells.	7

WT			PB—06—2024
3.	Define	e enzyme. Describe in detail classification of enzymes	s. 15
		Or	
	(a)	Ethanol production	8
	(<i>b</i>)	Cheese making	7
4.	What	is Biogas ? Describe in detail Biogas production.	15
		Or Or	
	(a)	Biodiesel	8
	<i>(b)</i>	Ethical and social impact of Biotechnology	7
5	Write	short notes on (any three):	3×5=15
	(a)	Rhizobium as a Biofertilizer	
	(b)	Ag-Ab interactions	
	(c)	Biodegradation	
	(d)	Winery	
	(e)	Solid waste management.	

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PB-18-2024

FACULTY OF SCIENCE AND TECHNOLOGY

B.Sc. (First Year) (First Semester) EXAMINATION

APRIL/MAY, 2024

(New Pattern)

BIOTECHNOLOGY

(Microbiology-I)

(Wednesday, 10-04-2024)	Time: 10.00 a.m. to 1.00 p.m.
Time—3 Hours	Maximum Marks—75
Note:— (i) All questions are compulsory.	
(ii) Draw neat diagram wherever nec	essary.
1. Describe in detail controversy abiogenesis.	15
Or Or	
(a) Explain the Koch's postulates.	8
(b) Write a short note on Physiological	significance of fermentation. 7
2. Describe in detail soil and agricultural micro	obiology. 15
Or	
(a) Write a short note on medical micro	biology. 8
(b) Write a short note on dairy microbio	ology. 7

WT			PB—	-18— 2024
3.	Descri	ibe in detail ultra-structure and bacteria.		15
		Or		
	(a)	Write a short note on cell membrane of bacteria.		8
	(<i>b</i>)	Write a short note on ribosome of bacteria.		7
4.	Descri	ibe in detail germination and sporulation of endospor	e.	15
		Or Or		
	(a)	Write a short note on Eukaryotic cell structure.		8
	<i>(b)</i>	Write a short note on exospores of bacteria.		7
5.	Write	short notes on any three of the following:		15
	(i)	Louis Pasteur		
	(ii)	Space Microbiology		
	(iii)	Magnetosome		
	(iv)	Endoplasmic Reticulum		
	(n)	PHR Granules		

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