This question paper contains 2 printed pages]

PH-15-2024

FACULTY OF SCIENCE

B.Sc. (BI) (First Year) (Second Semester) EXAMINATION MARCH/APRIL, 2024

(New Pattern)

BIOINFORMATICS

(Basic of Genetics)

(Monday, 08-04-2024)	Time: 10.00 a.m. to 1.00 p.m.
Time—Three Hours	Maximum Marks—75
Note:— (i) All questions are compulso	ory.
(ii) Draw neat and well labell	ed diagrams wherever necessary.
1. Explain in detail 'Laws of Mendelia	an inheritance'.
Or Or	
(a) Explain multiple alleles and g	rive examples. 8
(b) Explain scope and significance	of genetics. 7
2. Describe in detail genetic cause and	symptoms of cri-du-chat syndrome. 15
Or ST Cor	
(a) Write about anomalies in sex	chromosome. 8
(b) Explain Hardy-Weinberg equil	ibrium. 7

WT		PH—15—2024
3.	Describe in detail generalised and abortive transduction. A	Add a note on
	application of transduction.	15
	Or Or	
	(a) Describe euchromatin and heterochromatin.	8
	(b) Explain classical and modern concept of gene.	7
4.	Describe in detail types of mutation and mutagens.	15
	A CONTROL OF STATE OF	
	(a) What role does mutation play in evolution of plants?	8
	(b) What is the difference between gene pool and gene fr	requency? 7
5.4	Write short notes on any three:	3×5=15
	(a) Scope and significance of genetics	
	(b) Gamma garden	
	(c) Turner syndrome	
	(d) Cytoplasmic male sterility	
	(e) Lethality.	

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PH-09-2024

FACULTY OF SCIENCE

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

APRIL/MAY, 2024

(New Pattern)

BIOINFORMATICS

(Basics of Biochemistry)

(Friday, 05-04-2024)	Time: 10.00 a.m. to 1.00 p.m.
Time—Three Hours	Maximum Marks—75
Note := (i) All questions are compulsory. (ii) All questions carry equal marks.	NE PRINCIPAL STREET
1. Describe in detail classification of simple Or	and complex carbohydrates.15
(a) Describe in detail classification of lip	ids. 8
(b) Discuss properties and role of lipids.	7
2. Define peptides. Describe peptide bond, ty	pes and biologically important
peptides. Or	15
(a) Explain concept of acid and base.	8
(b) Explain various chemical properties	of amino acids. 7

WT.		(2) PH—(09—2024
3.	Descri	ibe in detail tertiary structure of proteins with example.	15
		Or A Part of the Control of the Cont	
	(a)	Discuss classification and nomenclature of enzymes.	8
	(<i>b</i>)	Explain biological role of enzymes.	7
4.	Discus	ss in detail types of RNA.	15
		Or A Property of the Control of the	
	(a)	Discuss secondary structure of DNA.	8
	(b)	Discuss properties and biological role of nucleic acid.	7
5.	Write	short notes on (any three):	3×5=15
	(a)	Concept of atom and molecule	
	(b)	Glycolipids	
	(c)	Protein family	
	(d)	Nucleotides	
	(e)	Concept of buffers.	

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PH-23-2024

FACULTY OF SCIENCE

B.Sc. (Second Semester) EXAMINATION

MARCH/APRIL, 2024

(New Pattern)

BIOINFORMATICS

(Basics of Biocomputing)

(Frida	y, 12-04-2024) Time	: 10.00 a.m. to 1.00 p.m.
Time—	Three Hours	Maximum Marks—75
Note :-	- (i) All questions are compulsory.	
	(ii) All questions carry equal marks.	
	(iii) Draw diagrams wherever necessary.	
1. V	Vrite in detail about classification of computers.	15
	Or Or	
(0	Describe about block diagram of computer.	8
(1)	Describe about I/O devices in brief.	7
2. V	Vrite in detail about computer memory.	15
	Or A	
_ (c	a) Describe about optical storage devices.	8
(8	Describe about printers and its types.	7

WT		(2)	PH—23—2024
3.	Descri	ibe in detail about Linux OS.	15
		Or	
	(a)	Describe about features of MS-Windows.	8
	(<i>b</i>)	Give an account on Windows elements.	7
4.	Write	about MS-PowerPoint in detail.	15
		Or Or	
	(a)	Describe MS-Word and its uses.	8
	(b)	Give an account on MS-Access.	
5.	Write	short notes on (any three):	15
	(a)	Notepad	
	(b)	CPU	
	(c)	MICR	
	(d)	Windows help	
	(e)	MS-Excel.	

PH—23—2024

This question paper contains 3 printed pages]

PH-04-2024

FACULTY OF SCIENCE

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

MARCH/APRIL, 2024

(New Pattern)

BIOINFORMATICS

(Business Communication)

(Wednesday, 03-04-2024)	Time: 10.00 a.m. to 1.00 p.m.
Time—Three Hours	Maximum Marks—75
Note:— (i) All questions are compulsory.	
(ii) Draw neat and well labelled diag	grams if necessary.
1. Write a descriptive passage about your fa-	vourite sport player. 15
Or Or	
(a) Write a recipe about your favourite f	ood dish. 8
(b) How to describe object? Give a suita	able example. 7
2. How to spell correctly? Write 10 spelling	rules and give examples. 15
Or	
(a) Write one word substitution for the f	following phrases: 8
(i) A lover of good food.	

W I		(3) PH—(04—2024
4.	How 1	to write meeting notices ?	15
		Or A	
	(a)	How to write meeting agenda?	8
	(<i>b</i>)	How to write meeting minutes?	7
5.	Write	short notes on any three:	3×5=15
	<i>(i)</i>	Reference section of a research paper.	
	(ii)	E-mail writing for day-to-day purposes	
	(iii)	Idioms and phrases	
	(iv)	Moral story writing	
	(v)	Expression oninions	