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GJ-32-2023

FACULTY OF SCIENCE

B.Sc. (Second Semester) EXAMINATION APRIL/MAY, 2023

(New Course)

BIOINFORMATICS

(Basic of Biocomputing)

(Friday, 28-04-2023) Time: 10.00 a.	.m. to 1.00 p.m.
Time—3 Hours Maxim	num Marks—75
N.B.: (i) All questions are compulsory.), VEDY,
(ii) All questions carry equal marks.	
(iii) Draw diagrams wherever necessary.	
1. Write in detail about input and output devices in computing	ng. 15
(a) Give an account on programming languages.	8
(b) Describe in detail about block diagram of computer.	7
2. Write in detail about classification of computers.	15
Or Str	
(a) What is computer memory? Describe its types.	8
(b) Describe in brief about storage devices.	7
3. What is Operating System? Describe about Windows OS is	n detail. 15
Or to	
(a) Describe about windows accessories in detail.	8
(b) What are DLL and INI files?	7

WT (2) GJ—32—2023 4. Write about MS-Word and how it's useful in different field. 15 Or (a) Describe in detail about MS-PowerPoint. 8 (b) Write about MS-Excel and its application. 7 5. Write short notes on any three: 15 (a) MS-Access (b) Cache Memory (c) Supercomputer (d) Windows elements (e) Linux installation.
4. Write about MS-Word and how it's useful in different field. Or (a) Describe in detail about MS-PowerPoint. (b) Write about MS-Excel and its application. 7 5. Write short notes on any three: (a) MS-Access (b) Cache Memory (c) Supercomputer (d) Windows elements (e) Linux installation.
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GJ-12-2023

FACULTY OF SCIENCE

B.Sc. (First Year) (Second Semester) EXAMINATION APRIL/MAY, 2023

(New Course)

BIOINFORMATICS

Paper-CCBI-1B

(Basics of Biochemistry)

(Dasies of Di	ochemistry)
(Monday, 24-04-2023)	Time: 2.00 p.m. to 5.00 p.m.
Time—3 Hours	Maximum Marks—75
N.B. :— (i) All questions are compul	sory.
(ii) All questions carry equal	l marks.
(iii) Draw well labelled diagra	ms wherever necessary.
1. Describe in detail concept of Acid a	and Base. 15
Or	•
(a) Write a note on Buffers.	8
(b) Write a note on structure of	Atom. 7
2. What are carbohydrates? Give the	ir classification and function.
Or	-
(a) Write a note on fatty acids.	8
(b) Write a note on glycoprotein	. 7
3. Explain in detail classification and	properties of amino acids. 15
Or	•
(a) Write a note on structured l	evels of protein. 8
(b) Write a note on Biological re	ole of enzymes.

W.I.		(2)	GJ—12—2023
4.	Descr	15	
		Or	
	(a)	Write a note on types of RNA.	8
	(<i>b</i>)	Write a note on forms of DNA.	7
5.	Write	short notes on (any three):	$3\times5=15$
	(a)	Chiral interactions	
	(<i>b</i>)	Glycolipids	
	(c)	Peptide bonds	
	(d)	Nueleotides	
	(e)	Nucleoside.	

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GJ-19-2023

FACULTY OF SCIENCE

B.Sc. (First Year) (Second Semester) EXAMINATION APRIL/MAY, 2023

(New Course)

BIOINFORMATICS	
(Basics of Genetics)	
(Wednesday, 26-04-2023) Tim	ne: 10.00 a.m. to 1.00 p.m.
Time—3 Hours	Maximum Marks—75
N.B.: (i) All questions are compulsory.	Str. Calabata, Closure, Car
(ii) Draw neat and well labelled diagrams	if necessary.
1. Describe in detail different types of crossing over	r. 15
EN SERVICE SOUTH STATE OF STATE SOUTH STATE STATE SOUTH STATE STAT	Clare, Cluria
(a) Explain scope and significance of genetics	8
(b) Describe laws of Mendel based on monohy	ybrid cross. 7
2. Describe in detail symptoms, genetic cause and diagn	osis of Klinefelter syndrome.
BBBB, BBB, EULL, EULL, FBBBB, UBJC,	15
Service of the Contract of the	
(a) Write genetic cause and symptoms of Cri-	du-chat syndrome. 8
(b) Describe cytoplasmic male sterility.	7

WT		(2 $)$	-19—2023
3.	Descr	ribe in detail structure and types of chromosomes.	15
		Or Control of the Con	, White
	(a)	Describe bacterial conjugation process.	8
	(<i>b</i>)	Explain transduction process.	3
4.	Descr	ribe in detail economic benefits of induced mutation in plant	s, animals
	and 1	microbes to man. Give examples.	15
		Or Str. Or Str.	
	(a)	Describe structural and numerical aberrations in chromoso	omes. 8
	(b)	Write <i>three</i> examples of 'evolution in plants by mutation'.	7
5.		e short notes on any three:	3×5=15
	(<i>i</i>)	Cytological inheritance	
	(ii)	Hardy Weinberg equilibrium	
	(iii)	Bacterial transformation	
VIII.	(iv)	Dihybrid cross	
	(v)	Lampbrush chromosome.	
		TOPE STORY	
		By, 18ke, Why, 18ky,	
		ELBA CARE ANTIN	
A			
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GJ-05-2023

FACULTY OF SCIENCE

B.Sc. (First Year) (Second Semester) EXAMINATION APRIL/MAY, 2023

(New Course)

BIOINFORMATICS

Paper-AECBI-2A

(Business Communication)

(Thursday, 20-4-2023)	Time: 10.00 a.m. to 1.00 p.m.
Time—3 Hours	Maximum Marks—75
N.B. := (i) All questions are compulsory. (ii) Draw neat and well labelled d	
1. Write a short descriptive passage about Or	
(a) How to describe a person in Engl	lish ? 8
(b) How to describe an object? Explain v	with the example of your cell phone. 7
2. How to spell correctly? Describe in deta	il drop the 'e' rule, the 'i' before 'e'
rule and 'y' to 'i' rule.	15
Or The	
(a) Write one word for the following	phrases: 8
(i) One who is not sure about	God's existence
(ii) A person who deliberately s	sets fire to a building
(iii) One who does a thing for p	pleasure and not as a profession
(iv) One who makes an official	examination of accounts

WT			(2)	052023
		(<i>v</i>)	One who is bad in spellings	
		(vi)	One who feeds on human flesh	
		(vii)	The art of practice of garden cultivation and man	agement
		(viii)	One who supervises in the examination hall.	
	(<i>b</i>)	Write	antonyms of the words given below:	7
		(i)	Accept	
		(ii)	Arrive	
		(iii)	Dim St. Co.	
		(iv)	Guilty	5779
S. A.		(v)	Humble	ARR
		(vi)	Love	
		(vii)	Sink.	
3.	Descr	ibe in o	detail structural and oral approach for understanding	English. 15
			Or Or Charles	
	(a)	What	are Parajumbles ? Write tricks to solve parajumble	s into their
		prope	r sequence.	8
	(b)	What	is cloze test?	7
4.	How t	o write	a research paper? Explain different sections of a resear	ch paper. 15
			Or 35	
	(a)	How	to write meeting notices ?	8
	(b)	How	to write minutes of a meeting?	7

WT (3) GJ-05-2023

5. Write short notes on any three:

 $3 \times 5 = 15$

- (i) Meeting agenda
- (ii) Email writing for jobs
- (iii) Writing moral stories
- (iv) Expression opinions
- (v) Talking about recipes.

GJ = 05 = 2025