Shri Swami Vivekanand Shikshan Sanstha's

Vivekanand College, Kolhapur (An Empowered Autonomous Institute) Department of Zoology

B. Sc. III, (Major Zoology) Sem. V STUDENTS SEMINAR (04/08/25 - 07/08/2025)



Academic Year: 2025-2026

Shri Swami Vivekanand Shikshan Sanstha's

Vivekanand College, Kolhapur (An Empowered Autonomous Institute)

Department of Zoology Academic Year 2025-26

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Shri Swami Vivekanand Shikshan Sanstha's

Vivekanand College, Kolhapur (An Empowered Autonomous Institute) Department of Zoology Academic year-2025-2026

Date: 14/07/2025

NOTICE

Subject: Student Seminar B. Sc. III (Major Zoology) Semester V

All students of B. Sc. III here by informed that, as per part of curriculum and CIE, all have to complete their seminars. It is compulsory to all and scheduled of seminar is given below follow the schedule and complete your seminar. At the time of seminar, you have to submit Abstract of seminar to the Zoology Department.

Sr. No.	Name of Paper	Date of Seminar	Teacher In charge
1.	Molecular Biology	04/08/2025	Mr. G. H. Fadake
2.	Animal Biotechnology	05/08/2025	Dr. S. S. Desai
3.	Ecology	06/08/2025	Dr. G. K. Sontakke
4.	Biostatistics and Bioinformatics	07/08/2025	Ms. N. A. Patel

Dr. T. C. Patil Coordinator Dr. G. K. Sontakke

NEAD

DEPARTMENT OF ZOOLOGY

VIVEKANAND COLLEGE, KOLHAPUR

Shri Swami Vivekanand Shikshan Sanstha's

Vivekanand College, Kolhapur (An Empowered Autonomous Institute) Department of Zoology

B. Sc. III (Major) Semester-V Academic Year: 2025 -26

Seminar Topic Distribution- Molecular Biology

Sr. No.	Roll No.	Name of the Student	Topic Name	Signature
1.	8332	Adagale Paras Charudatta	Types of DNA replication	DARIOS
2.	8333	Mahekar Pruthviraj Tatoba	Transcription in eukaryotes	AD
3.	8334	Mane Pranoti Prakash	Capping of mRNA	Pho-
4.	8335	Mane Sangramsingh Sandip	Translation in prokaryotes	AB
5.	8336	Momin Shireen Sajid	Translation in eukaryotes	Smanin.
6.	8337	More Sanika Sanjay	lac operon: structure, function	SMYOSE
7.	8338	Nadaf Muskan Mohammad Rafiq	DNA repair- Direct repair	mukan
8.	8339	Navale Rutuja Pradeep	DNA repair- nucleotide excision	Ochor.
9.	8340	Patil Anushka Rajgonda	Nucleic acid as the genetic material	Arrah
10.	8341	Patil Gouri Vijay	DNA repair- base excision repair	AB
11.	8342	Patil Madhuri Sanjay	DNA repair- mismatch repair	Will
12.	8343	Patil Sayali Ashok	Genetic code	Stell
13.	8344	Patil Suhani Suraj	DNA replication in prokaryotes	Enter.
14.	8345	Shirgave Rutuja Bajarang	Watson and Crick's model of DNA	
15.	8346	Todkar Shravani Sanjay	Transcription in prokaryotes	Stalker.
16.	8347	Vira Sachin Khot	DNA replication in eukaryotes	Valebot
100000	The same of the sa	Bariya Avinaben Vinodbhai	Post transcriptional modification-splicing	Avina.
17.	8348	Kamble Ketan Keraba	DNA Damage- Source	Kets
18.	8349	Kamble Ratndip Rajaram	DNA Damage- Mechanism and types	Soblaste
19.	8350	Powar Yash Mahadev	Mutagenesis	AB
20.	8351	Bakohi Madhav Chavan.	The state of the s	Sochave

Date: 4/8/2025

"Dissemination of Education for Knowledge, Science and Culture" -Shikshanmaharshi Dr. Bapuji Salunkhe

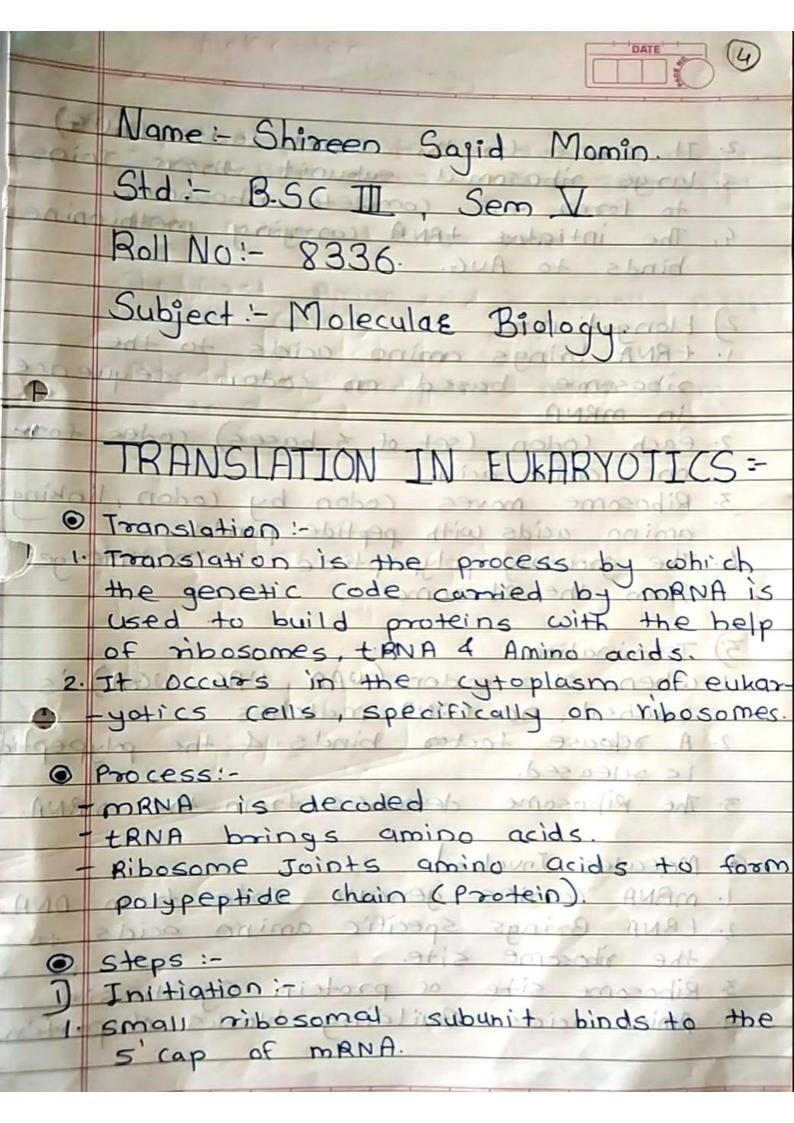
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Vivekanand College, Kolhapur (An Empowered Autonomous Institute) Department of Zoology

B. Sc. III (Major) Semester-V Academic Year: 2025 -26

Student Attendance-

Sr. No.	Roll No.	Name of the Student	Signature
1.	8332	Adagale Paras Charudatta	DARAS
2.	8333	Mahekar Pruthviraj Tatoba	AB
3.	8334	Mane Pranoti Prakash	lle .
4.	8335	Mane Sangramsingh Sandip	AD
5.	8336	Momin Shireen Sajid	Amonin
6.	8337	More Sanika Sanjay	Same
7.	8338	Nadaf Muskan Mohammad Rafiq	Mukan.
8.	8339	Navale Rutuja Pradeep	Ratial.
9.	8340	Patil Anushka Rajgonda	Populi)
10.	8341	Patil Gouri Vijay	AB
11.	8342	Patil Madhuri Sanjay	Apetu
12.	8343	Patil Sayali Ashok	8184U
13.	8344	Patil Suhani Suraj	enatul
14.	8345	Shirgave Rutuja Bajarang	kuti.
15.	8346	Todkar Shravani Sanjay	Stroka
16.	8347	Vira Sachin Khot	Vsuhot
17.	8348	Bariya Avinaben Vinodbhai	Juina.
18.	8349	Kamble Ketan Keraba	Kuts
19.	8350	Kamble Ratndip Rajaram	Sothable.
20.	8351	Powar Yash Mahadev	AB



2. It scans for the start (odon (AUG) 3. large ribosomal subunit then Joins to form the complete ribosome. 4. The intrator trans corrying methionine binds to Aug. 2) Elongation - 1. tRNA brings amino acids to the in mana. 2. each (odon (set of 3 bases) codes for one amino acid. 3. Ribosome moves codon by codon, linking amino acids with peptide Bonds. 4. The growing polypeptide chain emerget from the Ribosome. 3) Termination -1. when stop codon (UAA, UAG, UGA) is reached, no tRNA matches. 2. A release factor binds. 4 the polypeptide is released. 3. The Ribosome detaches from the MANA. 1 Molecules Involved 1. MANA Carries genetic code from DNA 2. LANA Brings specific amino acids to the mbosome site. 3 Ribosome site of protein Synthesis. 4. Amino acids Building blocks of protein



Shri Swami Vivekanand Shikshan Sanstha's

Vivekanand College, Kolhapur (An Empowered Autonomous Institute)

Department of Zoology B. Sc. III (Major) Semester-V Academic Year: 2025 -26

Seminar Topic Distribution- Animal Biotechnology

Sr. No.	Roll No.	Name of the Student	Topic Name	Signature
1.	8332	Adagale Paras Charudatta	Concept and Scopes of Biotechnology	DARAS
2.	8333	Mahekar Pruthviraj Tatoba	Calcium chloride method	AB
3.	8334	Mane Pranoti Prakash	liposomal Mediated gene transfer	ffo
4.	8335	Mane Sangramsingh Sandip	DNA sequencing: Sanger's method	AB
5.	8336	Momin Shireen Sajid	DNA fingerprinting	Smorris
6.	8337	More Sanika Sanjay	Polymerase chain reaction	Semon.
7.	8338	Nadaf Muskan Mohammad Rafiq	western blotting	Mukan
8.	8339	Navale Rutuja Pradeep	Restriction enzymes	Riter
9.	8340	Patil Anushka Rajgonda	rDNA in medicines: Insulin production	(Arogan)
10.	8341	Patil Gouri Vijay	Gene therapy- Types and Applications	AB
11.	8342	Patil Madhuri Sanjay	Vector- Phagemid, Lambda	meli
12.	8343	Patil Sayali Ashok	Southern blotting	Stem
Contract of the last	8344	Patil Suhani Suraj	Stem cells: types	inputil
13.	8345	Shirgave Rutuja Bajarang	Stem cells: applications	Rutin
14.		Todkar Shravani Sanjay	Application in Medicine	85dkm
15.	8346	Vira Sachin Khot	Applications in animal husbandry	VSlibot
16.	8347	Bariya Avinaben Vinodbhai	Vector- Plasmid	Auma.
17.	8348	Kamble Ketan Keraba	Construction of cDNA libraries	Kets
18.	8349	Kamble Ratndip Rajaram	Construction of genomic libraries	Southerne
19.	8350	Powar Yash Mahadev	Production of transgenic animals	XB
20.	8351	Bakehi Modhav Chavar.	DNA-microinjection	Schove

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Vivekanand College, Kolhapur (An Empowered Autonomous Institute)

Department of Zoology B. Sc. III (Major) Semester-V Academic Year: 2025 -26

Student Attendance-

1	Dat	te:	5/8	/21	125

Sr. No.	Roll No.	Seminar for paper Animal Bioto Name of the Student	Signature
1.	8332	Adagale Paras Charudatta	CARAS
2.	8333	Mahekar Pruthviraj Tatoba	AB
3.	8334	Mane Pranoti Prakash	200 -
4.	8335	Mane Sangramsingh Sandip	AB
5.	8336	Momin Shireen Sajid	Lucinia
6.	8337	More Sanika Sanjay	Samas
7.	8338	Nadaf Muskan Mohammad Rafiq	mukan
8.	8339	Navale Rutuja Pradeep	Robert.
9.	8340	Patil Anushka Rajgonda	Argata
10.	8341	Patil Gouri Vijay	AB
11.	8342	Patil Madhuri Sanjay	metr
12.	8343	Patil Sayali Ashok	SARAW
13.	8344	Patil Suhani Suraj	Small
14.	8345	Shirgave Rutuja Bajarang	Auti -
15.	8346	Todkar Shravani Sanjay	Stodka.
16.	8347	Vira Sachin Khot	Vslebot
17.	8348	Bariya Avinaben Vinodbhai	Arina.
18.	8349	Kamble Ketan Keraba	Kets
19.	8350	Kamble Ratndip Rajaram	Fott kable.
20.	8351	Powar Yash Mahadev	AB

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Bakshi Madhav Chaven

Name - Shireen Sejid Momin SId - B.Sc III. Sem- I

Rell No:= 8336

Subject :- Animal Biotechnology

DNA FINGERPRINTING

I DNA fingerprit is also known as DNA profiling or genetic fingerpriting

2. laboratory Technique / chemical Test that shows

Genotic makeup of person.

Six Alec Jeffreys in 1384 was discovered the DNA Fingerprint.

4. It involves identify differences in specific regions in ONA sequences

Formsic science - Identifying suspects, solving crimes, and exponerating innocent andividual. Applications: 2. Paternity tecting - Determining biological

& Genetic because + studying genetic Relation

chip & Identifying genetic disorders.

Genservation Biology - Indentifying species of tracking genetic diversity.

0	
1	Process:
1	
1	samples (e.g. Blood) saliva, Hair follicle). with the help of ONA sequencing technique
	with the help of ONA sequencing technique
enti	0.1% DNA part consist of Reputative sequence
5	
-	Restriction Enzyme Digestion -
72	TOTO Shalles Catalogo Sing
200	restriction enzyme (cut the specific region)
0	with the help of moleculor sesion).
-2	
5	Gel Electrophoresis -
100000	seperating DNA fragment based on size
00111	using gel electrophoresis
-,	used Agarose gel 4 Alkaline section
Jun 3	(It works DNA fragment seperate)
	(constant of problems of person)
4	Southern Blotting T Mallot DA
	on the Electrophonisis gel the nylon sheet membrane (Papel)
7.17	membrane (Papel)
1	Absorb this fragment on the nylon
	membrane sheet.
	This process called Southern Blothing
	LIGHT - DONNESS DISCOUNT
5	Hubridization = x 9 brus 2-10110 polylos
	ainding beled probes to specific DNH sequence
)00	eache = complementary sequence called probe.
	from probe (AIGT ++ TAG)
HEDE.	87659321100
	M. Vilashux - Walland agottown
00	A phisolall strang pounds
	B 11 11



Shri Swami Vivekanand Shikshan Sanstha's

Vivekanand College, Kolhapur (An Empowered Autonomous Institute)

Department of Zoology

B. Sc. III (Major) Semester-V Academic Year: 2025 -26

Sr.	Roll	Name of the Co. 1	c Distribution- Ecology	
No.	No.	Name of the Student	Topic Name	Signature
1.	8332	Adagale Paras Charudatta	Types of species interaction competition,	PARAB
2.	8333	Mahekar Pruthviraj Tatoba	Concept of Habitat	AB
3.	8334	Mane Pranoti Prakash	Ecological adaptation in aquatic	ele-
4.	8335	Mane Sangramsingh Sandip	Food Chain	AB
5.	8336	Momin Shireen Sajid	Ecological adaptation in desert	Sumin
6.	8337	More Sanika Sanjay	Ecological adaptation in terrestrial	SACTION
7.	8338	Nadaf Muskan Mohammad Rafiq	Biogeochemical cycles- Nitrogen	Mukan
8.	8339	Navale Rutuja Pradeep	Biogeochemical cycles- Phosphorous	Revant
9.	8340	Patil Anushka Rajgonda	Fundamental and realized niche	Aguit
10.	8341	Patil Gouri Vijay	Types of species interaction commensalism	AB
11.	8342	Patil Madhuri Sanjay	Characteristics of a population	medi
12.	8343	Patil Sayali Ashok	Ecotone and edge effect	Shoul
13.	8344	Patil Suhani Suraj	r- selection	Smatu
14.	8345	Shirgave Rutuja Bajarang	K-selection	Ruting.
West-	8346	Todkar Shravani Sanjay	Stages of succession	Stocker
15.	Charles Sec	Vira Sachin Khot	Stages of succession	Manot
16.	8347	Bariya Avinaben Vinodbhai	Niche width and overlap	Aura.
17.	8348	Kamble Ketan Keraba	Ecological Succession- hydrosere	+4
18.	8349		Abiotic and biotic factors of ecosystem	Sithlat
19.	8350	Kamble Ratndip Rajaram	Ecological Succession- Lithosere	AB
20.	8351	Powar Yash Mahadev Bakshi Madhav Chavan.	Population growth curve	Mohov

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Vivekanand College, Kolhapur (An Empowered Autonomous Institute) Department of Zoology

B. Sc. III (Major) Semester-V Academic Year: 2025 -26

Student Attendance-Seminar for paper Ecology

Date 6/8/2025

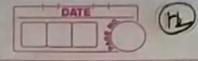
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1.	8332	Adagale Paras Charudatta	DARAS
2.	8333	Mahekar Pruthviraj Tatoba	AB
3.	8334	Mane Pranoti Prakash	ene
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5.	8336	Momin Shireen Sajid	Lorgin
6.	8337	More Sanika Sanjay	Saffara
7.	8338	Nadaf Muskan Mohammad Rafiq	Mulkan
8.	8339	Navale Rutuja Pradeep	Boked.
9.	8340	Patil Anushka Rajgonda	Argalil
10.	8341	Patil Gouri Vijay	AB
11.	8342	Patil Madhuri Sanjay	orti
12.	8343	Patil Sayali Ashok	8ABIL
13.	8344	Patil Suhani Suraj	Small
14.	8345	Shirgave Rutuja Bajarang	Vstebot
15.	8346	Todkar Shravani Sanjay	Stocker
16.	8347	Vira Sachin Khot	Vslehot
17.	8348	Bariya Avinaben Vinodbhai	Aulma.
18.	8349	Kamble Ketan Keraba	Ket
19.	8350	Kamble Ratndip Rajaram	Sethable
20.	8351	Powar Yash Mahadev	Ao

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Bakshi Madhav Chavor

Dr. G. K. Sontakke
HEAD
DEPARTMENT OF ZOOLOG

DEPARTMENT OF ZOOLOGY
VIVEKANAND COLLEGE, KOLMAPUR
(EMPOWERED AUTOMOMPLIS)



Name: Shireen Sajid Momin.

Std: B.SC-III, Sem V

Roll NO:- 8336

Subject: - Ecology.

ECOLOGICAL ADAPTATION: - DESERT

Desert animals live in dry, hot, & harsh environments where water is scarce and temperatures are extreme. To survive, they have depend special ecological adaptations in their body structure, physiology, & behavior.

Highly efficient kidneys - produce concentrated urine to minimize water loss. (e.g. kangaroo rat, camel)

Dry Feces - Desert animals excrete very little water through Feces.

from the digestion of food.

27 Temperature Regulation: Thik skin or scales - reduce water loss & reflect sunlight. (e.g. lizards, snakes) No sweat glands - To prevent water loss (e.g. desert rodents) Active at night - stay underground during the hot day & come out at night to avoid heat. 3) Morphological Adaptations: Long limbs or ears - Help in heat loss Ce.g. Fennec Fox has large ears.) fat storage in body parts - carnels store fat in their humps which can be used for energy & water 4) behavioral Adaptations: Burrowing - Animals like desert fox or snakes dig burrows to stay cool. Migration - some animals move to cooler areas during extreme heat. · Desert animals show amazing adaptations that help them survive extreme heat & water scarcity. This adaptations are examples of how animals evolve to fit into their environment.



Shri Swami Vivekanand Shikshan Sanstha's

Vivekanand College, Kolhapur (An Empowered Autonomous Institute)

Department of Zoology B. Sc. III (Major) Semester-V Academic Year: 2025 -26

Seminar Topic Distribution- Biostatistics and Bioinformatics

Sr. No.	Roll No.	Name of the Student	Topic Name	Signature
1.	8332	Adagale Paras Charudatta	Graphical presentation of data-Line diagram,	PARAS
2.	8333	Mahekar Pruthviraj Tatoba	Scope of Biostatistics	AB
3.	8334	Mane Pranoti Prakash	Concept of mean, mode	ffee
4.	8335	Mane Sangramsingh Sandip	requirement of a good table	AB
5.	8336	Momin Shireen Sajid	Methods of sampling data: Random	Smornia
6.	8337	More Sanika Sanjay	Methods of sampling- Stratified	Samons.
7.	8338	Nadaf Muskan Mohammad Rafiq	Methods of sampling data: Systematic	Mughan
8.	8339	Navale Rutuja Pradeep	Correlation: Types of Correlation	Braale
9.	8340	Patil Anushka Rajgonda	Mean deviation	Anah
10.	8341	Patil Gouri Vijay	Basic concepts in bioinformatics	AB
11.	8342	Patil Madhuri Sanjay	Type of tabulation,	Weilly.
12.	8343	Patil Sayali Ashok	Basic concepts in bioinformatics	Stetil
13.	8344	Patil Suhani Suraj	Graphical presentation of data- Bar diagram	Small
14.	8345	Shirgave Rutuja Bajarang	Measure of dispersion (standard deviation)	tentup.
15.	8346	Todkar Shravani Sanjay	Graphical presentation of data- Pie chart	Stocka
16.	8347	Vira Sachin Khot	Organization of computer	vachot
17.	8348	Bariya Avinaben Vinodbhai	Input and output devices	Avina.
18.	8349	Kamble Ketan Keraba	Elementary idea of software hardware	Ket
STATE OF THE PARTY OF	8350	Kamble Ratndip Rajaram	Role of bioinformatics in life sciences	Sathleble
19.	8351	Powar Yash Mahadev	Student t-test	AB
20.	8331	Sakshi Madhav Chavan	ANOVA	Schava

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Vivekanand College, Kolhapur (An Empowered Autonomous Institute)

Department of Zoology B. Sc. III (Major) Semester-V Academic Year: 2025-26

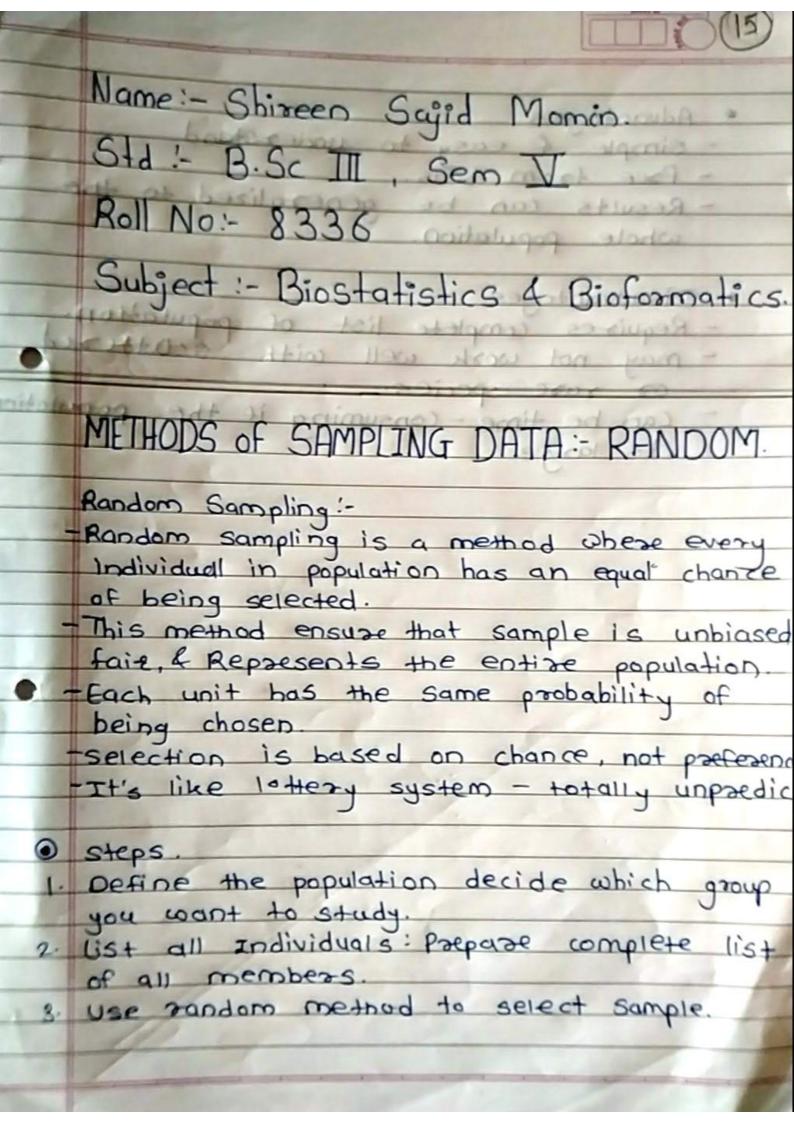
Student Attendance-7/8/2025 Seminar for paper Biostatics and Bioinformatics

r. No.	Roll No.	Name of the Student	Clanatura
L	8332	Adagale Paras Charudatta	Signature
	8333	Mahekar Pruthviraj Tatoba	PARES
1.	8334	Mane Pranoti Prakash	AB
4.	8335	The second secon	ffer.
		Mane Sangramsingh Sandip	AB
5.	8336	Momin Shireen Sajid	Liminis
5.	8337	More Sanika Sanjay	Sant
7.	8338	Nadaf Muskan Mohammad Rafiq	Musican
8.	8339	Navale Rutuja Pradeep	Rature.
).	8340	Patil Anushka Rajgonda	April .
0.	8341	Patil Gouri Vijay	AB
1.	8342	Patil Madhuri Sanjay	men
2.	8343	Patil Sayali Ashok	Solil
3.	8344	Patil Suhani Suraj	Smatil
4.	8345	Shirgave Rutuja Bajarang	AB
5.	8346	Todkar Shravani Sanjay	Stalka
6.	8347	Vira Sachin Khot	Vsichot
7.	8348	Bariya Avinaben Vinodbhai	Arina.
3.	8349	Kamble Ketan Keraba	*
9.	8350	Kamble Ratndip Rajaram	Setheable.
0.	8351	Powar Yash Mahadev	AB

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Bakshi Madhav Chavor

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VIVEKANAND COLLEGE, ROLLWALD
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Vivekanand College, Kolhapur

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Department of Zoology Academic year-2025-2026

PHOTOPLATE

Seminar B. Sc. III Major Zoology Sem. V









