

Permanently Affiliated to Thiruvalluvar University
Recognized by UGC under sections 2(f) and 12(B) of the UGC Act 1956
Accredited with "B" Grade by NAAC

Approved by the Government of Tamil Nadu Phone:04174-235266 Email: principaliwc@gmail.com www.islamiahwomensartsandsciencecollege.com

Project Details 2022 2023

Program Name: B.Sc Zoology - Program Code: U33

S.No	List Of Students	Project Title	Place Of Work	1.2.2023 to 12.5.2023 One Semester		
1	Aaliya Thamreen A	Ovis Aries Blood and Excreta Parasite of Veterinary and Zoonotic Importance	Islamiah Women's Arts And Science College			
2	Abinaya D	Isolation and Identification of Baceria from Drinking Water Sources of Bos Taurus	Islamiah Women's Arts And Science College	1.2.2023 to 12.5.2023 One Semester		
3	Amreen A	Histological Methods in the Assessment of Effects on Liver, Instestine & Tissues of Oreochromis Mossambicus.	Islamiah Women's Arts And Science College	1.2.2023 to 12.5.2023 One Semester		
4	Amrin Banu T	Felis Catus Model of External Traumatic Wound Infection, Isolation, and Identification of Bacteria	Islamiah Women's Arts And Science College	1.2.2023 to 12.5.2023 One Semester		
5	Asfiya Tabassum M S	Oryctolagus Cuniculus Blood and Excreta Parasites of Veterinary and Zoonotic Importance	Islamiah Women's Arts And Science College	1.2.2023 to 12.5.2023 One Semester		
6	Athira Aimen T	Isolation and Identification of Baceria from Drinking Water Sources of Oryctolagus Cuniculus	Islamiah Women's Arts And Science College	1.2.2023 to 12.5.2023 One Semester		
7	Athufa Yusra E	Histological Methods in the assessment of Effects on Liver, Instestine, and Tissue of Pampus Argenteus.	Islamiah Women's Arts And Science College	1.2.2023 to 12.5.2023 One Semester		
8 MIAH W	Deepika S	Ovis Aries Models of External Traumatic Wound Infection, Isolation, and Identification of Bacteria	Islamiah Women's Arts And Science College	1.2.2023 to 12.5.2023 One Semester		

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ISLAMIAH WOMEN'S ART AND SCIENCE COLLEGE VANIYAMBADI.

9	Fathima	Columba Livia, Blood and	Islamiah	1.2.2023 to
	Bathool P.A	Excreta Parasites of	Women's Arts	12.5.2023
		Veterinary And Zoonotic	And Science	One Semester
	L	Importance	College	
10	Ghousiya	Isolation and Identidfication	Islamiah	1.2.2023 to
	Roohi Nizami	of Bacteria from Drinking	Women's Arts	12.5.2023
	M	Water Sources of Ovis Aries	And Science	One Semester
			College	
11	Janani S	Histological Methods in the	Islamiah	1.2.2023 to
		Assesment of Effects on	Women's Arts	12.5.2023
		Liver, Instestine and Tissues	And Science	One Semester
		Of Labeo Rohita.	College	
12	Jhansi M	Bos Taurus Models of	Islamiah	1.2.2023 to
		External Traumatic Wound	Women's Arts	12.5.2023
		Infection, Isolation, and	And Science	One Semester
		Identification of Bacteria	College	
13	Madhumitha K	Gallus Gallus Domesticus	Islamiah	1.2.2023 to
		Blood and Excreta Parasites	Women's Arts	12.5.2023
		of Veterinary and Zoonotic	And Science	One Semester
		Importance	College	
14	Misra T.S	Isolation and Identification of	Islamiah	1.2.2023 to
		Bacteria from Drinking Water	Women's Arts	12.5.2023
		Sources of Columba Livia	And Science	One Semester
			College	
15	Nusaiba	Histological Methods in the	Islamiah	1.2.2023 to
	Kulsoom K I	Assesment of Effects on	Women's Arts	12.5.2023
		Liver, Instestine and Tissues	And Science	One Semester
		Of Labeo Catla.	College	
16	Priyadharshini	Gallus Gallus Domesticus,	Islamiah	1.2.2023 to
	S	Model of External Traumatic	Women's Arts	12.5.2023
		Wound Infection, Isolation,	And Science	One Semester
		and Identification of Bacteria	College	one semester
17	Rupika V	Canis Lupus Familiaris,	Islamiah	1.2.2023 to
		Blood and Excreta Parasites	Women's Arts	12.5.2023
		of Veterinary and Zoonotic	And Science	One Semester
		Importance	College	
18	Salma Suha	Isolation and Identification of	Islamiah	1.2.2023 to
	A.P	Bacetria from Drinking Water	Women's Arts	12.5.2023
		Sources of Gallus Gallus	And Science	One Semester
		Domesticus	College	
19	Sandhiya T	Histological Methods in the	Islamiah	1.2.2023 to
1)	Dundinya 1	Assesment of Effects on	Women's Arts	12.5.2023
		Liver, Instestine, and Tissues	And Science	One Semester
		of Channa Striata.	College	One beliester
20	Sangaethe D		Islamiah	1.2.2023 to
20	Sangeetha P	Capra Hircus Models of External Traumatic Wound	Women's Arts	12.5.2023 to
			And Science	One Semester
11/10	IOMEN'S	Infection, Isolation, and Identification of Bacteria	College	One Semester
AM		racinitication of Dacteria	Conege	1 1

21	Sharifa Naaz K	Capra Hircus, Blood and	Islamiah	1.2.2023 to	
		Excreta Parasites of	Women's Arts	12.5.2023	
		Veterinary and Zoonotic	And Science	One Semester	
		Importance	College		
22	Shiza Harmeen	Isolation and Identification of	Islamiah	1.2.2023 to	
	R	Bacteria from Drinking Water	Women's Arts	12.5.2023	
		Sources of Capra Hircus	And Science	One Semester	
			College		
23	Unaiza	Histological Methods in the	Islamiah	1.2.2023 to	
	Mariyam M.P	Assesment of Effects on	Women's Arts	12.5.2023	
		Liver, Instestine, and Tissues	And Science	One Semester	
		of Plotosus Canius.	College		
24	Vasanthi U	Canis Lupus Familiaris	Islamiah	1.2.2023 to	
		Models of External Traumatic	Women's Arts	12.5.2023	
		Wound Infection, Isolation,	And Science	One Semester	
		and Identification of Bacteria	College		
25	Yuvasri P	Bos Taurus, Blood and	Islamiah	1.2.2023 to	
		Excreta Parasites of	Women's Arts	12.5.2023	
		Veterinary and Zoonotic	And Science	One Semester	
		Importance	College		



THIRUVALLUVAR UNIVERSITY BACHELOR OF SCIENCE

B.Sc. ZOOLOGY DEGREE COURSE

(With effect from 2020 - 2021)

The Course of Study and the Scheme of Examinations

		Study Components		Ins.					
S. No.	Part	Course 1	Title	Hrs / week	Credit	Title of the Paper	Title of the Paper Maximum Ma		
		SEMEST	ER I				CIA	Uni. Exam	Tota
1.	1	Language	Paper-1	6	4	Tamil/Other Languages	25	75	100
2.	11	English (CE)	Paper-1	6	4	Communicative English I	25	75	100
3.	III	Core Theory	Paper-1	6	4	Invertebrata	25	75	100
	III	Core Practical	Practical-1	4	0	Invertebrata and chordata	0	0	0
4.	=	Allied -1	Paper-1	4	3	(To choose 1 out of 3) 1. Chemistry – I 2. Botany – I 3. Economic Entomology – I	25	75	100
	111	Allied- 1	Practical-1	2	0		0	0	0
5.	III	PE	Paper 1	6	3	Professional English I	25	75	100
6.	IV	Environmental Studies		2	2	Environmental studies	25	75	100
		Sem. Total		36	20		150	450	600
		SEMESTI	ER II				CIA	Uni. Exam	Tota
								EXAIII	
7.	1	Language	Paper-2	6	4	Tamil/Other Languages	25	75	100
7. 8.	1	Language English (CE)	Paper-2 Paper-2	6	4	Tamil/Other Languages Communicative English II	25 25		
	_						-	75	100
8.	II	English (CE)	Paper-2	6	4	Communicative English II	25	75 75	100 100 100
8. 9.	11	English (CE) Core Theory	Paper-2 Paper-2	6	4	Communicative English II Chordata	25 25	75 75 75	100
8. 9. 10.	II III III	English (CE) Core Theory Core Practical	Paper-2 Paper-2 Practical-1	6 5 3	4 4 2	Communicative English II Chordata Invertebrata and chordata (To choose I out of 3) 1. Chemistry II 2. Botany II	25 25 25	75 75 75 75	100 100 100
8. 9. 10.		English (CE) Core Theory Core Practical Allied-1	Paper-2 Paper-2 Practical-1 Paper-2	6 5 3 4	4 4 2 3	Communicative English II Chordata Invertebrata and chordata (To choose I out of 3) 1. Chemistry II 2. Botany II	25 25 25 25	75 75 75 75 75	100 100 100
8. 9. 10. 11.		English (CE) Core Theory Core Practical Allied-1 Allied Practical - 1	Paper-2 Paper-2 Practical-1 Paper-2 Practical-1	6 5 3 4 2	3	Communicative English II Chordata Invertebrata and chordata (To choose I out of 3) 1. Chemistry II 2. Botany II 3. Economic Entomology II	25 25 25 25 25	75 75 75 75 75 75	100 100 100 100 100
8. 9. 10. 11.		English (CE) Core Theory Core Practical Allied-1 Allied Practical - 1 PE	Paper-2 Paper-2 Practical-1 Paper-2 Practical-1	6 5 3 4 2 6	4 4 2 3 2 3	Communicative English II Chordata Invertebrata and chordata (To choose I out of 3) 1. Chemistry II 2. Botany II 3. Economic Entomology II	25 25 25 25 25 25 25	75 75 75 75 75 75 75	100 100 100 100

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		SEMESTI					CIA	Uni. Exam	Tota
16.	1	Language	Paper-3	6	4	Tamil/Other Languages	25	75	100
17.	11	English	Paper-3	6	4	English	25	75	100
18.	111	Core Theory	Paper-3	4	4	Cell and molecular Biology	25	75	100
	111	Core Practical	Practical- II	3	0	Cell and molecular Biology	0	0	0
19.	III	Allied-2	Paper-3	4	3	(To choose 1 out of 3) 1. Chemistry - I 2. Botany - I 3. Economic Entomology - I	25	75	100
		Allied Practical - 2	Practical-2	3	0		0	0	0
20.	IV	Skill Based Subject	Paper-1	2	2	(To choose 1 out of 2) 1.Vermiculture 2. Single Cell Protein Culture	25	75	100
21.	IV	Non-Major Elective	Paper-1	2	2	(To choose 1 out of 2) 1.Public Health and Hygine 2.Poultry Farming	25	75	100
		Sem. Total		30	19		150	50 450	600
		SEMESTI	ER IV				CIA	Uni. Exam	Tota
22.	1	Language	Paper-4	6	4	Tamil/Other Languages	25	75	100
23.	- 11	English	Paper-4	6	4	English	25	75	100
24.	111	Core Theory	Paper-4	4	4	Genetics and Biotechnology	25	75	100
25.	111	Core Practical	Practical-2	3	3	Cell and molecular Biology and Genetics and Biotechnology	25	75	100
26.	III	Allied-2	Paper-4	4	3	(To choose 1 out of 3) 1. Chemistry II 2. Botany II 3. Economic Entomology II	25	75	100
27.	III	Allied Practical - 2	Practical-2	3	2		25	75	100
28.	IV	NMSDC : Digital Skills for Employability	Paper-2	2	2	Office Fundamentals	25	75	100
29.	IV	Non-Major Elective	Paper-2	2	2	(To choose 1 out of 2) 1. Bio-Fertilizer Production 2. Aquarium Fish keeping	25	75	100
		Sem. Total		30	24		200	600	800
4 4 4 4 6						分表表现是多数的表现实			
		SEMEST	ER V				CIA	Uni. Exam	Tota
30.	111	Core Theory	Paper-5	6	6	Bio-Statistics and Bio- Informatics	25	75	100
	III	Core Practical	Practical-3	3	0	Bio-Statistics and Bio- Informatics Developmental Biology and Immunology Animal Physiology	0	0	0
31.	Ш	Core Theory	Paper-6	6	6	Developmental Biology and Immunology	25	75	100



		Jenn Total		50	140				4300
44.		NMSDC : Employability Readiness		30	30	Naandi Unnati Quest Izpay IBM Skills build	300	600	900
43.	V	Extension Activities		0	1	(choose any one)	100	0	100
42.	IV	Skill based Subject	Paper-4	3	2	(To choose 1 out of 2) 1.Medical Lab Technology 2.Industrial Fishery Management	25	75	100
41.	111	Internal Elective	Paper-3	3	3	(To choose 1 out of 2) 1. Bio Chemistry 2. Applied Entomology	25	75	100
40.	III	Internal Elective	Paper-2	3	3	(To choose 1 out of 2) 1. Evolution 2.Microbiology	25	75	100
39.	111	Compulsory Project	Paper-10	5	5	Individual / Group Project	25	75	100
38.	III	Core Practical	Practical-4	3	3	Environmental Biology Economic Zoology	25	75	100
37.	III	Core Practical	Practical-3	3	3	Bio-Statistics and Bio- Informatics Developmental Biology and Immunology Animal Physiology	25	75	100
36.	III	Core Theory	Paper-9	5	5	Economic Zoology	25	75	100
35.	III	Core Theory	Paper-8	5	5	Environmental Biology	25	75	100
		SEMESTER	RVI				CIA	Uni. Exam	Tota
								-64	
34.	IV	Skill Based Subject Sem. Total	Paper-3	3	2 22	(To choose 1 out of 2) 1. Animal Behavior 2. Vegetable Meat Culture	25 125	75 375	100
33.	III	Internal Elective	Paper-1	3	3	(To choose 1 out of 2) 1. Nano Technology in Life Sciences 2. Human Endocrinology	25	75	100
32.		Core Theory	Paper-7	6	5	Animal Physiology	25	75	100
		Core Practical	Practical-4	3	0	Environmental Biology Economic Zoology	0	0	0





Affiliated to Thiruvalluvar University, Serkadu Newtown, Vaniyambadi, Tirupattur – 635 752. Email ID: principaliwc@gmail.com

DEPARTMENT OF ZOOLOGY APRIL-MAY - 2023

CERTIFICATE

This is to certify that the project entitled "Ovis aries, blood and excreta parasites of veterinary and zoonotic importance" submitted to the Department of Zoology, Islamiah Women Arts and Science College, Vaniyambadi by A. AALIYA THAMREEN (Reg. No.:31220U33001) in partial fulfillment of the requirement for the award of the Degree of Bachelor of Science a bonafide record of work carried out by the candidate under my Guidance Mrs. N. KALPANA, M. Sc., M. Phil., M. Ed., It has not formed on the basis for the award of any Degree, Diploma, Associate ship, Fellowship or other similar title of any University or Institution.

Signature of the Guide Supervisor

Signature of the H.O.D

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Submitted for Viva-Voce Examination held on __

Vaniyambadi

12.05.28.

Internal Examiner

HEAD OF THE DEPARTMENT
DEPARTMENT OF ZOOLOGY
ISLAMIAH WOMEN'S ARTS
AND SCIENCE COLLEGE
VANIYAMBADIAS and

(25)

Dr. M. JOB GOPINATH, M.Sc., M.Phil., Ph.D., Assistant Professor & Research Supervisor, PG & Research Dept. of Zoology, Voorhees College, Vellore - 1.

External Examiner

M.No. 7397641860

E-mail: job.gcpinath@gmail.com

PRINCIPAL
ISLAMIAH WOMEN'S ARTS
AND SCIENCE COLLEGE
VANIYAMBADI



Affiliated to Thiruvalluvar University, Serkadu Newtown, Vaniyambadi, Tirupattur - 635 752. Email ID: principaliwc@gmail.com

DEPARTMENT OF ZOOLOGY APRIL-MAY - 2023

CERTIFICATE

This is to certify that the project entitled "Isolation and identification of bacterja from drinking water sources of Bos taurus" submitted to the Department of Zoology, Islamiah Women Arts and Science College, Vaniyambadi by D. ABINAYA (Reg. No.:31220U33002) in partial fulfillment of the requirement for the award of the Degree of Bachelor of Science a bonafide record of work carried out by the candidate under my Guidance Dr. A. RAGAMATH BEE, M. Sc., M. Phil., Ph.D., It has not formed on the basis for the award of any Degree, Diploma, Associate ship, Fellowship or other similar title of any University or Institution.

A. Rayamel Signature of the Guide Supervisor

Signature of the H.O.D.

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Submitted for Viva-Voce Examination held on 12.05. 2023

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HEAD OF THE DEPARTMENT DEPARTMENT OF ZOOLOGY **ISLAMIAH WOMEN'S ARTS** AND SCIENCE COLLEGE VANIYAMBADI.

ISLAMIAH WOMEN'S ART AND SCIENCE COLLEGE VANIYAMBADI

ernal Examiner

Dr. M. JOB GOPINATH, M.Sc., M.Phil., Ph.D., Assistant Professor & Research Supervisor, PG & Research Dept. of Zoology, Voorhees College, Vellore - 1, M.No. 7397641860 E-mail: job.gopinath@gmail.com



Affiliated to Thiruvalluvar University, Serkadu Newtown, Vaniyambadi, Tirupattur - 635 752.

Email ID: principaliwc@gmail.com

DEPARTMENT OF ZOOLOGY APRIL-MAY - 2023

CERTIFICATE

This is to certify that the project entitled "Histological methods in the assessment of effects on liver, intestine and tissue of Oreochromis mossambicus" submitted to the Department of Zoology, Islamiah Women Arts and Science College, Vaniyambadi by A. AMREEN (Reg. No.:31220U33004) in partial fulfillment of the requirement for the award of the Degree of Bachelor of Science a bonafide record of work carried out by the candidate under my Guidance Dr. C. SANDHYA, M. Sc., M. Phil., Ph.D., It has not formed on the basis for the award of any Degree, Diploma, Associate ship, Fellowship or other similar title of any University or Institution.

Signature of the Guide Supervisor

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Signature of the H.O.D.

Submitted for Viva-Voce Examination held on 12.05. 2023

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HEAD OF THE DEPARTMENT **DEPARTMENT OF ZOOLOGY** ISLAMIAH WOMEN'S ARTS AND SCIENCE COLLEGE VANIYAMBADI.

ISLAMIAH WOMEN'S

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AND SCIENCE COLL Voorhees College, Vellore - 1.

Dr. M. JOB GOPINATH, M.Sc., M.Phil., Ph.D., Assistant Professor & Research Supervisor, PG & Research Dept. of Zoology,

ernal Examiner

VANIYAMBADI. M.No. 7397641860



Affiliated to Thiruvalluvar University, Serkadu Newtown, Vaniyambadi, Tirupattur - 635 752.

Email ID: principaliwc@gmail.com

DEPARTMENT OF ZOOLOGY APRIL-MAY - 2023

CERTIFICATE

This is to certify that the project entitled "Felis catus, model of external traumatic wound infection, isolation, and identification of bacteria" submitted to the Department of Zoology, Islamiah Women Arts and Science College, Vaniyambadi by T. AMRIN BANU (Reg. No: 31220U33005) in partial fulfillment of the requirement for the award of the Degree of Bachelor of Science a bonafide record of work carried out by the candidate under my Guidance Ms. S. SOWMIYA M.Sc., It has not formed on the basis for the award of any Degree, Diploma, Associate ship, Fellowship or other similar title of any University or Institution.

Signature of the Guide Supervisor

Signature of the H.O.D.

Submitted for Viva-Voce Examination held on 12.05.2023

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MPIPPE DEPARTMENT DEPARTMENT OF ZOOLOGY ISLAMIAH WOMEN'S ARTS AND SCIENCE COLLEGE

VANIYAMBADI.

External Examiner

ISLAMIAH WOMEN'S ART Assistant Professor & Research Supervisor, Dr. M. JOB GOPINATH, M.Sc., M.Phil., Ph.D., AND SCIENCE COLLEGEPG & Research Dept. of Zoology. Voorhees College, Vellore - 1.

M.No. 7397641860



Affiliated to Thiruvalluvar University, Serkadu Newtown, Vaniyambadi, Tirupattur - 635 752. Email ID: principaliwc@gmail.com

DEPARTMENT OF ZOOLOGY APRIL-MAY - 2023

CERTIFICATE

This is to certify that the project entitled "Oryctolagus cuniculus, blood and excreta parasites of veterinary and zoonotic importance" submitted to the Department of Zoology, Islamiah Women Arts and Science College, Vaniyambadi by M. S. ASFIYA TABASSUM (Reg. No.:31220U33006) in partial fulfillment of the requirement for the award of the Degree of Bachelor of Science a bonafide record of work carried out by the candidate under my Guidance Mrs. N. KALPANA, M. Sc., M. Phil., M. Ed., It has not formed on the basis for the award of any Degree, Diploma, Associate ship, Fellowship or other similar title of any University or Institution.

Signature of the Guide Supervisor

Signature of the H.O.D

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Submitted for Viva-Voce Examination held on

12.05.23

HEAD OF THE DEPARTMENT DEPARTMENT OF ZOOLOGY ISLAMIAH WOMEN'S ARTS AND SCIENCE COLLEGE VANIYAMBADI.

PRINCIPAL VANIYAMBADI

Dr. M. JOB GOPINATH, M.Sc., M.Phil., Ph.D., ISLAMIAH WOMEN'S ARTAssistant Professor & Research Supervisor, AND SCIENCE COLLEGIPG & Research Dept. of Zoology. Voorhees College, Vellore - 1.

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M.No. 7397641860



Affiliated to Thiruvalluvar University, Serkadu Newtown, Vaniyambadi, Tirupattur - 635 752. Email ID: principaliwc@gmail.com

DEPARTMENT OF ZOOLOGY APRIL-MAY - 2023

CERTIFICATE

This is to certify that the project entitled "Isolation and identification of bacteria from drinking water sources of Oryctolagus cuniculus" submitted to the Department of Zoology, Islamiah Women Arts and Science College, Vaniyambadi by T. ATHIRA AIMEN (Reg. No.:31220U33007) in partial fulfillment of the requirement for the award of the Degree of Bachelor of Science a bonafide record of work carried out by the candidate under my Guidance Dr. A. RAGAMATH BEE, M. Sc., M. Phil., Ph.D., It has not formed on the basis for the award of any Degree, Diploma, Associate ship, Fellowship or other similar title of any University or Institution.

Signature of the Guide Supervisor

Signature of the H.O.D.

Submitted for Viva-Voce Examination held on 12 -05 - 2023

DEPARTMENT OF ZOOLOGY ISLAMIAH WOMEN'S ARTS

AND SCIENCE COLLEGE VANIYAMBADI.

External Examiner

ISLAMIAH WOMEN'S ARTS ASSISTANT PROJECT & Research Supervisor, VANIYAMBADI. VOO NOOTS COILE BETTER COILE BETT

Voolenge, Vellore - 1. M. N. 7997641860

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E-maimab gopinath@gmail.com



Affiliated to Thiruvalluvar University, Serkadu Newtown, Vaniyambadi, Tirupattur – 635 752. Email ID: principaliwc@gmail.com

DEPARTMENT OF ZOOLOGY APRIL-MAY - 2023

CERTIFICATE

This is to certify that the project entitled "Histological methods in the assessment of effects on liver, intestine and tissue of Pampus argenteus" submitted to the Department of Zoology, Islamiah Women Arts and Science College, Vaniyambadi by E. ATHUFA YUSRA (Reg. No.:31220U33008) in partial fulfillment of the requirement for the award of the Degree of Bachelor of Science a bonafide record of work carried out by the candidate under my Guidance Dr. C. SANDHYA, M. Sc., M. Phil., Ph.D., It has not formed on the basis for the award of any Degree, Diploma, Associate ship, Fellowship or other similar title of any University or Institution.

Signature of the Guide Supervisor

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Signature of the H.O.D

Submitted for Viva-Voce Examination held on 12.05.2023

Internal Examiner

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PRINCIPAL
ISLAMIAH WOMEN'S ARTS
AND SCIENCE COLLEGE
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Dr. M. JOB GOPINATH, M.Sc., M.Phil., Ph.D. Assistant Professor & Research Supervisor, PG & Research Dept. of Zoology, Voorhees College, Vellore - 1.

Examiner

M.No. 7397641860



Affiliated to Thiruvalluvar University, Serkadu Newtown, Vaniyambadi, Tirupattur - 635 752. Email ID: principaliwc@gmail.com

DEPARTMENT OF ZOOLOGY APRIL-MAY - 2023

CERTIFICATE

This is to certify that the project entitled Ovis aries, model of external traumatic wound infection, isolation, and identification of bacteria submitted to the Department of Zoology, Islamiah Women Arts and Science College, Vaniyambadi by S. DEEPIKA (Reg. No: 31220U33009) in partial fulfillment of the requirement for the award of the Degree of Bachelor of Science a bonafide record of work carried out by the candidate under my Guidance Ms. S. SOWMIYA M.Sc., It has not formed on the basis for the award of any Degree, Diploma, Associate ship, Fellowship or other similar title of any University or Institution.

Signature of the Guide Supervisor

Janiyambadi

Signature of the H.O.D.

Submitted for Viva-Voce Examination held on 13:05:2023

HEAD OF THE DEPARTMENT DEPARTMENT OF ZOOLOGY ISLAMIAH WOMEN'S ARTS AND SCIENCE COLLEGE VANIYAMBADI

AND SOUTH OF ARTS PG & Research Dept of Zoology. AND SCIENCE COLLEGE VANIYAMBADI.

External Examiner

Dr. M. JOB GOPINATH, M.Sc., M.Phil., Ph.D., Assistant Professor & Research Supervisor,

Voorhees College Vellore - 1.

M.No. 7397641860



Affiliated to Thiruvalluvar University, Serkadu Newtown, Vaniyambadi, Tirupattur - 635 752. Email ID: principaliwc@gmail.com

DEPARTMENT OF ZOOLOGY APRIL-MAY - 2023

CERTIFICATE

This is to certify that the project entitled "Columba livia, blood and excreta parasites of veterinary and zoonotic importance" submitted to the Department of Zoology, Islamiah Women Arts and Science College, Vaniyambadi by P. A. FATHIMA BATHOOL (Reg. No.:31220U33011) in partial fulfillment of the requirement for the award of the Degree of Bachelor of Science a bonafide record of work carried out by the candidate under my Guidance Mrs. N. KALPANA, M. Sc., M. Phil., M. Ed., It has not formed on the basis for the award of any Degree, Diploma, Associate ship, Fellowship or other similar title of any University or Institution.

Signature of the Guide Supervisor

Signature of the H.O.D

Submitted for Viva-Voce Examination held on

12.05.23

Internal Examiner

HEAD OF THE DEPARTMENT **DEPARTMENT OF ZOOLOGY** ISLAMIAH WOMEN'S ARTS

AND SCIENCE COLLEGE VANIYAMBADI.

ISLAMIAH WOMEN'S ARTS

ternal Dxaminer

AND SCIENCE COLLEGDr. M. JOB GOPINATH, M.Sc., M.Phil., Ph.D., VANIVANDA COLLEGDr. M. JOB GOPINATH, M.Sc., M.Phil., Ph.D.,

PG & Research Dept. of Zoology, Voorhees College, Vellore - 1.

M.No 7397641860



Affiliated to Thiruvalluvar University, Serkadu Newtown, Vaniyambadi, Tirupattur - 635 752. Email ID: principaliwc@gmail.com

DEPARTMENT OF ZOOLOGY APRIL-MAY - 2023

CERTIFICATE

This is to certify that the project entitled "Isolation and identification of bacteria from drinking water sources of Ovis aries" submitted to the Department of Zoology, Islamiah Women Arts and Science College, Vaniyambadi by M. GHOUSIYA ROOHI NIZAMI (Reg. No.:31220U33012) in partial fulfillment of the requirement for the award of the Degree of Bachelor of Science a bonafide record of work carried out by the candidate under my Guidance Dr. A. RAGAMATH BEE, M. Sc., M. Phil., Ph.D., It has not formed on the basis for the award of any Degree, Diploma, Associate ship, Fellowship or other similar title of any University or Institution.

A- Rayermell Signature of the Guide Supervisor

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Submitted for Viva-Voce Examination held on ____

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12.05.2023

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HEAD OF THE DEPARTMENT DEPARTMENT OF ZOOLOGY ISLAMIAH WOMEN'S ARTS AND SCIENCE COLLEGE

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VANIYAMBALDI. M. JOB GOPINATH, M.Sc., M.Phil., Ph.D., Assistant Professor & Research Supervisor, PG & Research Dept of Zoology. Voorhees College, Velicre - 1. M.No. 7397641860 E-mail: job.gopinath@gmail.com



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Email ID: principaliwc@gmail.com

DEPARTMENT OF ZOOLOGY APRIL-MAY - 2023

CERTIFICATE

This is to certify that the project entitled "Histological methods in the assessment of effects on liver, intestine and tissue of Labeo rohita" submitted to the Department of Zoology, Islamiah Women Arts and Science College, Vaniyambadi by S. JANANI (Reg. No.:31220U33013) in partial fulfillment of the requirement for the award of the Degree of Bachelor of Science a bonafide record of work carried out by the candidate under my Guidance Dr. C. SANDHYA, M. Sc., M. Phil., Ph.D., It has not formed on the basis for the award of any Degree, Diploma, Associate ship, Fellowship or other similar title of any University or Institution.

. Sondlya Signature of the Guide Supervisor

Signature of the H.O.D

Submitted for Viva-Voce Examination held on 12.05.2023

DEPARTMENT OF ZOOLOG

ISLAMIAH WOMEN'S ARTS AND SCIENCE COLLECT

VANIYAMBADI.

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Dr. M. JOB GOPINATH, M.Sc., M.Phil., Ph.D., ISLAMIAH WOMEN'S APG & Research Dept. of Zoology, Assistant Professor & Research Supervisor. AND SCIENCE COLLEGOThees College, Vellore - 1.

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Email ID: principaliwc@gmail.com

DEPARTMENT OF ZOOLOGY APRIL-MAY - 2023

CERTIFICATE

This is to certify that the project entitled "Bos taurus, model of external traumatic wound infection, isolation, and identification of bacteria" submitted to the Department of Zoology, Islamiah Women Arts and Science College, Vaniyambadi by M. JHANSI (Reg. No.:31220U33014) in partial fulfillment of the requirement for the award of the Degree of Bachelor of Science a bonafide record of work carried out by the candidate under my Guidance Ms. S. SOWMIYA M.Sc., It has not formed on the basis for the award of any Degree, Diploma, Associate ship, Fellowship or other similar title of any University or Institution.

Signature of the H.O.D

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Submitted for Viva-Voce Examination held on 12.05. 2023

HEAD OF THE DEPARTMENT DEPARTMENT OF ZOOLOGY ISLAMIAH WOMEN'S ARTS AND SCIENCE COLLEGE VANIYAMBADI.

PRINCIPAL ISLAMIAH WOMEN'S AI

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DEPARTMENT OF ZOOLOGY APRIL-MAY - 2023

CERTIFICATE

This is to certify that the project entitled "Gallus gallus domesticus, blood and excreta parasites of veterinary and zoonotic importance" submitted to the Department of Zoology, Islamiah Women Arts and Science College, Vaniyambadi by K. MADHUMITA (Reg. No.:31220U33017) in partial fulfillment of the requirement for the award of the Degree of Bachelor of Science a bonafide record of work carried out by the candidate under my Guidance Mrs. N. KALPANA, M. Sc., M. Phil., M. Ed., It has not formed on the basis for the award of any Degree, Diploma, Associate ship, Fellowship or other similar title of any University or Institution.

Signature of the Guide Supervisor

Signature of the H.O.D

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Submitted for Viva-Voce Examination held on

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12.05.23

EPEPARTMENT DEPARTMENT OF ZOOLOGY ISLAMIAH WOMEN'S ARTS

AND SCIENCE COLLEGE VANIYAMBADI.

ISLAMIAH WOMEN'S ARTS

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Email ID: principaliwc@gmail.com

DEPARTMENT OF ZOOLOGY APRIL-MAY - 2023

CERTIFICATE

This is to certify that the project entitled "Isolation and identification of bacteria from drinking water sources of Columba livia" submitted to the Department of Zoology, Islamiah Women Arts and Science College, Vaniyambadi by T. S. MISRA (Reg. No.:31220U33018) in partial fulfillment of the requirement for the award of the Degree of Bachelor of Science a bonafide record of work carried out by the candidate under my Guidance Dr. A. RAGAMATH BEE, M. Sc., M. Phil., Ph.D., It has not formed on the basis for the award of any Degree, Diploma, Associate ship, Fellowship or other similar title of any University or Institution.

A - Raymall Signature of the Guide Supervisor

Signature of the H.O.D

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Submitted for Viva-Voce Examination held on

12.05.23

nternal Examiner

ISLAMIAH WOMEN'S AR AND SCIENCE COLLECTION VANIYAMBADI External Examiner

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Email ID: principaliwc@gmail.com

DEPARTMENT OF ZOOLOGY APRIL-MAY - 2023

CERTIFICATE

This is to certify that the project entitled "Histological methods in the assessment of effects on liver, intestine and tissue of Labeo catla" submitted to the Department of Zoology, Islamiah Women Arts and Science College, Vaniyambadi by K. I. NUSAIBA KULSOOM (Reg. No.:31220U33019) in partial fulfillment of the requirement for the award of the Degree of Bachelor of Science a bonafide record of work carried out by the candidate under my Guidance Dr. C. SANDHYA, M. Sc., M. Phil., Ph.D., It has not formed on the basis for the award of any Degree, Diploma, Associate ship, Fellowship or other similar title of any University or Institution.

Signature of the Guide Supervisor

2. Sandhya

Signature of the H.O.D

External Examiner

Submitted for Viva-Voce Examination held on 12.05.2023

aniyambadi

HEAD OF THE DEPARTMENT DEPARTMENT OF ZOOLOGY ISLAMIAH WOMEN'S ARTS AND SCIENCE COLLEGE VANIYAMBADI

ISLAMIAH WOMEN'S , Dr. M. JOB GOPINATH, M. Sc., M. Phil., Ph.D., AND SCIENCE COLL Assistant Professor & Research Supervisor, VANIYAMBADI PG & Research Dept of Zoology, VANIYAMBADI. PG & Research Dep. Voorhees College. Vellore - 1.



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DEPARTMENT OF ZOOLOGY APRIL-MAY - 2023

CERTIFICATE

This is to certify that the project entitled "Gallus gallus domesticus, model of external traumatic wound infection, isolation, and identification of bacteria" submitted to the Department of Zoology, Islamiah Women Arts and Science College, Vaniyambadi by S. PRIYADHARSHINI (Reg. No.:31220U33020) in partial fulfillment of the requirement for the award of the Degree of Bachelor of Science a bonafide record of work carried out by the candidate under my Guidance Ms. S. SOWMIYA M.Sc., It has not formed on the basis for the award of any Degree, Diploma, Associate ship, Fellowship or other similar title of any University or Institution.

Signature of the H.O.D

Submitted for Viva-Voce Examination held on 12.05.2023

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HEAD OF THE DEPARTMENT DEPARTMENT OF ZOOLGG ISLAMIAH WOMEN'S ARTS AND SCIENCE COLLEGE

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ISLAMIAH WOMEN'S ARASSISTANT Professor & Rose: Supervisor, Dr. M. JOB GOPINATH, M.Sc., M.Phil., Ph.D.,

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DEPARTMENT OF ZOOLOGY APRIL-MAY - 2023

CERTIFICATE

This is to certify that the project entitled "Canis lupus familiaris, blood and excreta parasites of veterinary and zoonotic importance" submitted to the Department of Zoology, Islamiah Women Arts and Science College, Vaniyambadi by V. RUPIKA (Reg. No.:31220U33021) in partial fulfillment of the requirement for the award of the Degree of Bachelor of Science a bonafide record of work carried out by the candidate under my Guidance Mrs. N. KALPANA, M. Sc., M. Phil., M. Ed., It has not formed on the basis for the award of any Degree, Diploma, Associate ship, Fellowship or other similar title of any University or Institution.

Signature of the Guide Supervisor

Signature of the H.O.D

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Submitted for Viva-Voce Examination held on

Vaniyambad

12.05.23

HEAD OF THE DEPARTMENT DEPARTMENT OF ZOOLOGY ISLAMIAH WOMEN'S ARTS AND SCIENCE COLLEGE VANIYAMBADI.

ISLAMIAH WOMEN: Dr. M. JOB GOPINATH, M.Sc., M.Phil., Ph.D., AND SCIENCE CO. Assistant Professor & Research Supervisor, VANIYAMBAD PG & Research Dept. of Zoology.

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DEPARTMENT OF ZOOLOGY APRIL-MAY - 2023

CERTIFICATE

This is to certify that the project entitled "Isolation and identification of bacteria from drinking water sources of Gallus gallus domesticus" submitted to the Department of Zoology, Islamiah Women Arts and Science College, Vaniyambadi by A. P. SALMA SUHA (Reg. No.:31220U33022) in partial fulfillment of the requirement for the award of the Degree of Bachelor of Science a bonafide record of work carried out by the candidate under my Guidance Dr. A. RAGAMATH BEE, M. Sc., M. Phil., Ph.D., It has not formed on the basis for the award of any Degree, Diploma, Associate ship, Fellowship or other similar title of any University or Institution.

Signature of the Guide Supervisor

Signature of the H.O.D

Submitted for Viva-Voce Examination held on 12.05.23

Internal Examiner

HEAD OF TREBERRAMINT
DEPARTMENT OF ZOOLOGY
ISLAMIAH WOMEN'S ARTS
AND SCIENCE COLLEGE
VANIYAMBADI.

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Dr. M. JOB GOPINATH, M.Sc., M.Phil., Ph.D., Assistant Professor & Research Supervisor,

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DEPARTMENT OF ZOOLOGY APRIL-MAY - 2023

CERTIFICATE

This is to certify that the project entitled "Histological methods in the assessment of effects on liver, intestine and tissue of Channa striata" submitted to the Department of Zoology, Islamiah Women Arts and Science College, Vaniyambadi by T. SANDHIYA (Reg. No.:31220U33023) in partial fulfillment of the requirement for the award of the Degree of Bachelor of Science a bonafide record of work carried out by the candidate under my Guidance Dr. C. SANDHYA, M. Sc., M. Phil., Ph.D., It has not formed on the basis for the award of any Degree, Diploma, Associate ship, Fellowship or other similar title of any University or Institution.

Signature of the Guide Supervisor

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Signature of the H.O.D

Submitted for Viva-Voce Examination held on 12-05-2093

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HEAD OF THE DE **DEPARTMENT OF** ISLAMIAH WOME AND SCIENCE & VANIYAMBADI.

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External Examiner

ISLAMIAH WOMEN'S ASSISTANT Professor & Research Supervisor, PG & Research Dept of Zoology, Voorhees College, Vellore 1.

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DEPARTMENT OF ZOOLOGY APRIL-MAY - 2023

CERTIFICATE

This is to certify that the project entitled "Capra hircus, model of external traumatic wound infection, isolation, and identification of bacteria" submitted to the Department of Zoology, Islamiah Women Arts and Science College, Vaniyambadi by P. SANGEETHA (Reg. No.:31220U33024) in partial fulfillment of the requirement for the award of the Degree of Bachelor of Science a bonafide record of work carried out by the candidate under my Guidance Ms. S. SOWMIYA M.Sc., It has not formed on the basis for the award of any Degree, Diploma, Associate ship, Fellowship or other similar title of any University or Institution.

Signature of the Guide Supervisor

Signature of the H.O.D.

Submitted for Viva-Voce Examination held on 12.5.2023

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HEAD OF THE DEPARTMENT PIST DEPARTMENT OF ZOOLOG ISLAMIAH WOMEN'S ARTS

AND SCIENCE COLLEGE VANIYAMBADI.

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ISLAMIAH WOMEN'S APASSISTANT Professor & Research Supervisor, AND SCIENCE COLLEGE & Research Dept of Zoology, Voorhees College, Veliore - 1.

External Examiner

M.No. 7397641860



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DEPARTMENT OF ZOOLOGY APRIL-MAY - 2023

CERTIFICATE

This is to certify that the project entitled "Capra hircus, blood and excreta parasites of veterinary and zoonotic importance" submitted to the Department of Zoology, Islamiah Women Arts and Science College, Vaniyambadi by K. SHARIFA NAAZ (Reg. No.:31220U33025) in partial fulfillment of the requirement for the award of the Degree of Bachelor of Science a bonafide record of work carried out by the candidate under my Guidance Mrs. N. KALPANA, M. Sc., M. Phil., M. Ed., It has not formed on the basis for the award of any Degree, Diploma, Associate ship, Fellowship or other similar title of any University or Institution.

Signature of the Guide Supervisor

Signature of the H.O.D

12.05.23 Submitted for Viva-Voce Examination held on ____

Science

HEAD OF THE DEPARTMENT DEPARTMENT OF ZOOLOGY ISLAMIAH WOMEN'S ARTS AND SCIENCE COLLEGE VANIYAMBADI.

ISLAMIAH WOMEN'S ARDI. M. JOB GOPINATH, M.Sc., M.Phil., Ph.D., AND SCIENCE COLLEGES & Research Der of Zoology, Assistant Professor & Research Supervisor,

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DEPARTMENT OF ZOOLOGY APRIL-MAY - 2023

CERTIFICATE

This is to certify that the project entitled "Isolation and identification of bacteria from drinking water sources of Capra hircus" submitted to the Department of Zoology, Islamiah Women Arts and Science College, Vaniyambadi by R. SHIZA HARMEEN (Reg. No.:31220U33026) in partial fulfillment of the requirement for the award of the Degree of Bachelor of Science a bonafide record of work carried out by the candidate under my Guidance Dr. A. RAGAMATH BEE, M. Sc., M. Phil., Ph.D., It has not formed on the basis for the award of any Degree, Diploma, Associate ship, Fellowship or other similar title of any University or Institution.

Dr. A - Payamel Signature of the Guide Supervisor

Signature of the H.O.D

Submitted for Viva-Voce Examination held on 12:05:2023

Internal Examiner

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DEPARTMENT OF ZOOLOGY
ISLAMIAH WOMEN'S ARTS
AND SCIENCE COLLEGE
VANIYAMBADI.

PRINCIPAL ISLAMIAH WOMEN'S ARTS AND SCIENCE COLLEGE VANIYAMBADI

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Email ID: principaliwc@gmail.com

DEPARTMENT OF ZOOLOGY APRIL-MAY - 2023

CERTIFICATE

This is to certify that the project entitled "Histological methods in the assessment of effects on liver, intestine and tissue of Plotosus canius" submitted to the Department of Zoology, Islamiah Women Arts and Science College, Vaniyambadi by M. P. UNAIZA MARIYAM (Reg. No.:31220U33027) in partial fulfillment of the requirement for the award of the Degree of Bachelor of Science a bonafide record of work carried out by the candidate under my Guidance Dr. C. SANDHYA, M. Sc., M. Phil., Ph.D., It has not formed on the basis for the award of any Degree, Diploma, Associate ship, Fellowship or other similar title of any University or Institution.

Signature of the Guide Supervisor

Signature of the H.O.D

Submitted for Viva-Voce Examination held on 12.5.2023

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Internal Examin

HEAD OF THE DEPARTMENT DEPARTMENT OF ZOOLOGY ISLAMIAH WOMEN'S ARTS AND SCIENCE COLLEGE VANIYAMBADI. ISLAMIAH WOMEN'S ARTS AND SCIENCE COLLEGE VANIYAMBADI External Examiner

Dr. M. JOB GOPINATH, M.Sc., M.Phil., Ph.D., Assistant Professor & Research Supervisor, PG & Research Dept. of Zoology, Voorhees College, Vellore - 1. M.No. 7397641860 E-mail: job.gopinath@gmail.com



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Email ID: principaliwc@gmail.com

DEPARTMENT OF ZOOLOGY APRIL-MAY - 2023

CERTIFICATE

This is to certify that the project entitled "Canis lupus familiaris, model of external traumatic wound infection, isolation, and identification of bacteria" submitted to the Department of Zoology, Islamiah Women Arts and Science College, Vaniyambadi by U. VASANTHI (Reg. No.:31220U33028) in partial fulfillment of the requirement for the award of the Degree of Bachelor of Science a bonafide record of work carried out by the candidate under my Guidance Ms. S. SOWMIYA M.Sc., It has not formed on the basis for the award of any Degree, Diploma, Associate ship, Fellowship or other similar title of any University or Institution.

Signature of the Guide Supervisor

Signature of the H.O.D

Submitted for Viva-Voce Examination held on 12:05:2023

HEAD OF THE DEPARTMENT DEPARTMENT OF ZOOLOGY ISLAMIAH WOMEN'S ARTS

AND SCIENCE COLLEGE VANIYAMBADI.

PRINCIPAL

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AND SCIENCE COLLEGE

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Externa Examiner

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M.No. 7397641860
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DEPARTMENT OF ZOOLOGY APRIL-MAY - 2023

CERTIFICATE

This is to certify that the project entitled "Bos taurus, blood and excreta parasites of veterinary and zoonotic importance" submitted to the Department of Zoology, Islamiah Women Arts and Science College, Vaniyambadi by P. YUVASRI (Reg. No.:31220U33029) in partial fulfillment of the requirement for the award of the Degree of Bachelor of Science a bonafide record of work carried out by the candidate under my Guidance Mrs. N. KALPANA, M. Sc., M. Phil., M. Ed., It has not formed on the basis for the award of any Degree, Diploma, Associate ship, Fellowship or other similar title of any University or Institution.

Signature of the Guide Supervisor

Signature of the H.O.D

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Submitted for Viva-Voce Examination held on 12.05.23

Arts ann

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HEAD OF THE DEPARTMENT DEPARTMENT OF ZOOLOGY ISLAMIAH WOMEN'S ARTS AND SCIENCE COLLEGE VANIYAMBADI.

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ISLAMIAH WOMEN'S ARTOR. M. JOB GOPINATH, M.Sc., M.Phil., Ph.D., Assistant Professor & Research Supervisor, PG & Research Dept. of Zoology,

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