	22-11-202)
	ing was held in the
Principals chamber on 22-11-8	2021. After discussing
with the Principal 2c, to	culty of the department
of sciences and the Stud	lente of B.Sc, it is
resolved to Enrich the au	0.
Maintenance of Aqualium	for the benefit of Studer
in this academic year 2	021-22. A proposal Seelli
Perwission to start the c	ourse should be Submitted
to the principal within -	wo dours.
Course Duration	· 1.0 days
Student intalle	
	: 15 marks (objective)
	t: 25 marks (objective)
	Principatuly.
course coodinator	PRINCIPAL (F.A.C) S.CH.V.P.M.R. Govt. Degree College
course coodinator	Accredited "B" by NAAC GANAPAVARAM (W.G.Dt.,)
1) Sti. N. V. N. B. Stinivasa Rao Lec. in chemistry	199
2) Dr. ch. chaitanya - later	ay .
Lec- in Botany	
Students representatives	
1) J. Sai Meghana - J. Sai	Meghana
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Date. 22.11.2021

From

Sk.Parveen
In-charge, Dept. of Zoology
SCHVPMR Govt. Degree College
Ganapavaram

To

The Principal
SCHVPMR Govt. Degree College
Ganapavaram

Sub: Curriculum Enrichment for 2021-22 - Dept. of Zoology - proposal for starting a Certificate Course in Ornamental fishes & Maintenance of Aquarium - Request for permission - Reg.

This is to submit that the Dept. of Zoology is proposing to start a Certificate Course in "Ornamental fishes & Maintenance of Aquarium" during the academic year 2021-22 so as to enrich the existing curriculum for the benefit of the students. Hence, this proposal is submitted seeking your permission.

Course duration:

30 to 40 days

Student intake:

20 to 30

Name of Faculty:

Sk. Parveen

Formative Assessment

15 marks (objective type)

Summative Assessment

25 marks (objective type)

Qualifying mark

15

Objectives:

To enrich the curriculum for the development of students

To impart hands on training on setting up of aquaria and maintenance

In-charge, Dept. of Zoology 2 11 201



Proceedings of the Principal (FAC), SCHVPMR Govt. Degree College, Ganapavaram

Present: Dr M. Syambab, M.Sc., Ph. D.,

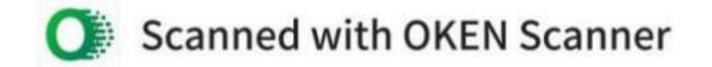
Rc.No.23/14/CC-21-22

Dated 23.11.2021

Sub: Dept. of Zoology - Proposal for Certificate Course in Ornamental fishes & Maintenance of Aquarium – India for the academic year 2021- 22-Permission granted - Orders issued - Reg.

The Principal, SCHVPMR Govt. Degree College, Ganapavaram is pleased to grant permission to launch a Certificate Course in "Ornamental fishes & Maintenance of Aquarium" by the Department of Zoology during the academic year 2021-22. The Incharge, Department of Zoology is requested to follow the due procedure for conducting the said course and submit a report thereof.

PRENNEUPAL SIU 21 S.CH.V.P.M.R.Govt.Degree College GANAPAVARAM-534198. (W.G.Dist)



	23-11-2021
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Greetings from the Departmen	1 of 700/09/1
All the Students of The TIH	PCE TO BZC
informed that the department of a costification of the start and the start a costification of the start and	200logy of our
collège is going to start a certifi	coté course in
Spawiental fishes & Maintenance	of Aquasium"
-from 20-11-2021.	
Honce, you are suggested to	Envoll for the
Course and make use of it.	
-> Envollment fams will be shall	ed with you soon.
-> A copy of course syllabus i	is Enclosed here with.
Course Design	
t t	
Name of the course - Enamental fi	shes & Maintenance of
	Aqualium.
Duration - 40 days	
Student intalle - 20 to 30 (Fix	
course starts on - 30-11-2021 Tim	"
Formative Assessment - 15 marks	
	ddle of the course
Summative Assessment - 25 marks	
	and of the course)
75%. ob attendance is mandots,	y to give the final lest.
Qualitying mark is 15 out of Students who scores 15 (8) abou	25 (Summative)
Students who scales 15 (81) abou	le will be given
course completion Certificates	
	I ALL
course co-adinator	Princi parsim
course co-ordinatos	S.CH.V.P.M.R. Govt. Degrae College
	Accredited "B" by NAAC GANAPAVARAM (W.G.Dt)
HPC -Id	
1110 - 195	



Certificate Course on Ornamental fishes & Maintenance of Aquarium"

Academic Year 2021-22

Total Instructional Hours: 40

Syllabus

Unit 1

Basics of aquaculture definition and scope. History of aquaculture: Present global and national scenario. World trade of ornamental fish and export potential. Different varieties of exotic and indigenous fishes. (6 hours)

Unit 2

Introduction to aquarium and aquarium accessories. Design and construction of fresh water aquarium. Introduction to Aquarium plants and their export potential. Profiles of some selected aquarium plants. (8 hours)

Unit 3

Breeding of ornamental fish with reference to live bearer species. Breeding of Guppies, Mollies, Sword tail fish and Platy fish. Introduction hatchery management system for live bearers. Construction, settings and maintenance of aquarium. (8 hours)

Unit 4

Breeding of ornamental fish with reference to selected egg layer species. Introduction to Breeding of Angel fish, Gold fish and Neon tetra. Introduction hatchery management system for egg layers. Feeding for breeding andmaintenance of ornamental fish. (8 hours)

Unit 5

Ornamental Fish-diseases and their management.

Preparation of an aquarium tank of suitable size. Setting of aquarium. Maintenance of an aquarium. (10 hours)

Course Coordinator





Department of Zoology

Certificate Course on "Ornamental Fishes & Maintainence of Aquarium"

Course Outline

Course Duration	40 days
Course Fee	Nil
Target Group	BSC
Student intake	20 to 30 (First Come-First Serve)
Start Date	30.11.2021
No. of Modules	5
Formative Assessment	15 marks (objective type)
Summative Assessment	25 marks (objective type)
Qualifying Mark	15
Name of the Course Coordinator	Sk.Parveen

Student Registration Form

Date: 30/11/2021

Name of the Student

: A. Yesu Raju

Admission Number

: 6929

Batch

: o

Year and Program studying

: a H PC

Semester

: III_Bernestas

Signature of the Student

Signature of the Course Coordinator



Department of Zoology

Certificate Course on "Ornamental Fishes & Maintainence of Aquarium"

Course Outline

Course Duration	40 days
Course Fee	Nil
Target Group	BSC
Student intake	20 to 30 (First Come-First Serve)
Start Date	30.11.2021
No. of Modules	5
Formative Assessment	15 marks (objective type)
Summative Assessment	25 marks (objective type)
Qualifying Mark	15
Name of the Course Coordinator	Sk.Parveen

Student Registration Form

Date: 30 \11 2021

Name of the Student

: B. Baby Sanoja : 6850

Admission Number

Batch

Year and Program studying

: II mpc

Semester

: III Semester

Signature of the Student



(Affiliated to AdikaviNannaya University, Rajamahendravaram, A.P.)

Department of Zoology

Certificate course on "Ornamental fishes & Maintenance of Aquarium" Academic Year: 2021-22

List of Students Enrolled

Sl.No. Admn.No.		Class	Name of the Student	Signature of the Student
1	6929	II MPC	Achanta. Yesu Raju	A. Yesu Raju
2	6850	II MPC	Bontha. Baby Saroja	B. Baby Saroja
3	6851	II MPC	Chittabattula. Divyasri	Ch. Divya-sri
4	6852	II MPC	Digamarthi. RathnaManikyam	D. Rathra marikyan
5	6853	II MPC	Eeli. Vasanth	E. Varents
6	6854	II MPC	Gorripati. Sandhya	G. Randhya
7	6855	II MPC	Jami.VenkataVallika	J. Venkedavallika
8	6856	II MPC	Jonnada. Sai Meghana	J. Bai Meghana
9	6858	II MPC	Nagisetti. SaimRaju	N. Guinfaire
10	6859	II MPC	Neelam. Sai	N. Sai
11	6960	II MPC	Nidamanuri. Dinesh Kumar	N. Direch Kunar
12	6861	II MPC	Nimmala. Dhana Surekha	N. Dhana Slockho
13	6862	II MPC	Salimatti. Hadasya	8. Hadasya
14	6863	II MPC	Singidi. Sravanthi	8. Saavanthi
15	6864	II MPC	Vanapalli. Bhagya Priya	V. Bhagya Przya
16	6865	II MPC	Varlothu. Vijay Kumar	V. Vijay kuman
17	6866	II MPC	Vippartti. David Raju	V. Obvid Pasu
18	6902	II BZC	Bandreddy. Chiranjeevi Saikumar	B. C. Bai kumare
19	6903	II BZC	Bocha. Tirumala Sai	B. Tolimula sai
20	6922	II BZC	Bodasingi. Vineetha	B. vineetha

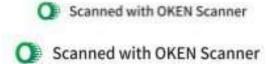
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PRINCIPAL

S.CH.V.P.M.R.Govt.Degree College

GANAPAVARAM-534198. (W.G.E':')





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Aquarium"- Certificate	coulse on 06-01-2022
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Certificate Couse on Ornamental fishes & Maintenance of Aquarium

FORMATIVE ACCECCATE TO	
FORMATIVE ASSESSMENT Test- 06-01-2022	
Name of the Student: A. Yesu Roja	Max. Marks: 1
Class: II Mpc	Time: 30 minutes
Admn No : 6929	
1. Which of the following is required for setting up of an Aquarium.	
(A.) Glass tank B. Bebbles C. Plants D. Aretor	
2. This fish is known as being an effective insectivore in areas known	for disease spread l
mosquitoes. In fact many people who don't even own an aquarium k	now of it
A. Sword fish B. Molly (C.) Guppy D. Gold fish	
Which nitrogen waste is the most harmful.	
A. Ammonia B. Nitrite C. Nitrate D. PH	
4. What device is used to add or remove water to an aquarium.	
(A) Siphon B. Heater C. Hydrometer D. Filter	
5. The management and rearing of aquatic animals is called as	
A. Pisiculture B. Sericulture C. Aquaculture D. Fishery	
6. Where plants and animals live in aquatic ecosystems.	
A. Water B. Land C. Air D. Fire	
7. Which is the indigenous ornamental fish	
A. Gold fish B. Platy C. Glass fish D Morala	
8. Setting of aquarium is also known as	
A. Aqua setting B. Aqua scaping C. Aquarium Culture D. Aqua	
9. Which collective word refers to a group of fish	iriculture
A. A collection B. A school C. An Army D. Group	
10. What is the most common colour of Gold fish	
A. Yellow B. Blue C. Orange D. Green	
11. All the following species are fish, except which one?	

O Scanned with OKEN Scanner

A. Lion fish B. Puffer fish C. Angel fish (D. Jelly fish 12. Eggs of gold fish are--- in nature A. Floating (B) Adhesive C. Semi-adhesive D. None 13. Nursery ponds are used for growing A. Spawn to Fry (B.) Brooders C. Fry to Fingerlings D. Marketable fishes 14. Hydrilla is a type of weed A. Algal weed B. Submerged weed C. Marginal weed D. Floating weed 15. Which chemical is used to control aquatic insect Hi-Oxide B. Bleaching powder C. Lime goods of which we will be a started to direction to the second with a major of the second second second to the second The designation of the state of to the second of the second of the second of A. THE LEWIS CO. LAND ST. LAND The state of the s the first the course of the and the area of the first the The Total Commerce of the second of the seco an indian i common appression of the same register of the arrival and the substant of the standard A. THE RESERVE TO STREET AND ADDRESS OF THE PARTY OF THE PAR the state of the state of the first transmitted and section of the state of the sta The state of the s The second and the second seco The state of the s The state of the s THE PARTY OF THE P The state of the second of the APPROVED TO THE PARTY OF THE PA



SRI CHINTALAPATI VARA PRASADA MURTHY RAJU GOVERNMENT DEGREE COLLEGE GANAPAVARAM-534 198

ESTD. 1972 • AFFILIATED TO ADIKAVI NANNAYA UNIVERSITY • ACCREDITED NAAC 'B'



DEPARTMENT OF ZOOLOGY

Certificate Couse on Ornamental fishes & Maintenance of Aquarium

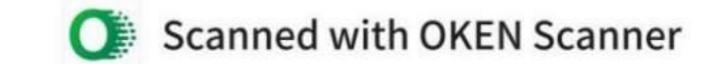
FORMATIVE ASSESSMENT Test- 06-01-2022	
Name of the Student: B. Baby Sazoja Ma	x. Marks: 1
Class · TI MDC	30 minutes
Admn No : 6860	
 Which of the following is required for setting up of an Aquarium. A Glass tank B. Bebbles C. Plants D. Aretor This fish is known as being an effective insectivore in areas known for dise mosquitoes. In fact many people who don't even own an aquarium know of it A. Sword fish B. Molly C. Guppy D. Gold fish Which nitrogen waste is the most harmful. A Ammonia B. Nitrite C. Nitrate D. PH What device is used to add or remove water to an aquarium. A. Siphon B. Heater C. Hydrometer D. Filter The management and rearing of aquatic animals is called as A. Pisiculture B. Sericulture C Aquaculture D. Fishery Where plants and animals live in aquatic ecosystems. A Water B. Land C. Air D. Fire Which is the indigenous ornamental fish A. Gold fish B. Platy C. Glass fish D. Morala Setting of aquarium is also known as 	
A. Aqua setting BAqua scaping C. Aquarium Culture D. Aquariculture 9. Which collective word refers to a group of fish A. A collection BA school C. An Army D. Group	
10. What is the most common colour of Gold fish A. Yellow B. Blue C. Orange D. Green	
11. All the following species are fish, except which one?	

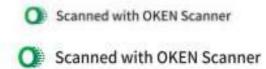
A Lion Gels D	Puffer fish C. Angel fish D Jelly fish	
12. Eggs of gold fish		
	Adhesive C. Semi-adhesive D. None	
13. Nursery ponds ar	B. Brooders C. Fry to Fingerlings D. Marketable fishes	
14. Hydrilla is a type	of weed	
	B) Submerged weed C. Marginal weed D. Farating weed	
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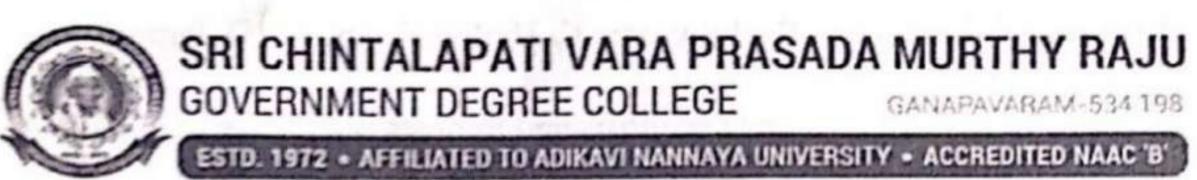
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Certificate Couse on Ornamental fishes & Maintenance of Aquarium

SUMMATIVE ASSESSMENT Test- 16-02-2022

Name of the Student: A- Yesu Raju	Max. Marks: 25
Class : II Mpc	Time: 50 minutes
Admn No : 6929	THE PARTY OF THE P
1. Which one is a floating aquatic weed	
A. Water lilly B. Lotus C. Water hyacinthD. Hydrilla	
2. Which one is mainly responsible for growth in fishes	11)33-65
A. Starch (B)Amino acidC. Vitamins D. Fatty acid	and the standard and the
2 Which is the sign of diseased fish	
	D Bright colouration
(A.) Eroded skinB. Normal swimming C. Absence of spots	
4. Fish species likely to be in danger of extinction in the near	
(A) Endangered B. Rare C. Vulnerable D. None	
5. Pituitary extract is preserved with	bad no de la
A. Absolute alcohol B. Glycerine C. Acetone D.	Freezing
6. Free swimming larvae of feed on mucous of their	r parents.
A. Angel B. Severum C. Gold fish D. Discus	HOLDER I. T.
7. Pistia is a type of weed	Elvery o Sur. To
(A.) Floating B. Sub-merged C. Marginal D. Algal	weed
8. Fishes feeding on single type of feed are known as	
A. Stenophagic B. Monophagic C. Euryphagic D. Ca	rnivorous
9 is a leading country in export of ornamental fishes.	
A. USA B. UK C. Singapore D. India	

10. Ca(Mg)CO3 is commonly known as
A. Agricultural lime stone B. Burnt lime C. Hydrated lime D Dolomite
11. Deficiency of gives rise to scoliosis and lordosis in fish
A. Vitamine A B. Vitamine B C. VitaminC D. Vitamin D
12. Two or more species culture in the same pond is known as
A. Poly culture B. Monoculture C. Race way culture D. Pen culture
13. Ranatra is a
A. Back swimmer B. Water strider C. Water stick insect D. Giant bug
14.
Ammonia produced in the liver of fish is converted into non toxic form in the blood called
A. Glutamine B. Uric acid C. Creatine D. Creatinine
15. For breeding of neon tetra, the pH of water should be in the range of
A.) 5.5-6.5 B. 4.5-5.5 C. 6.5-7.5 D. 7.5-8.0
16. For breeding of neon tetra, the pH of water should be in the range of A. Estuarine B. Oligohaline C. Steno haline D. Euryhaline
17. National Fisheries Development Board is located in
A. Hyderabad B. Goa C. Mumbai D. Chennai
18. Blue revolution is related with the following
A. Food grain production B. Oil seed production C. Fish production D. Milk production
19.Biodrum refers to-
A. Ozoniser B. Bio filter C. Machine D. Weeder
20. The important food fish is
A. Rohu B. Catla C. Wallago D. Clarius
21. In India the best aquarium is located in

A. Z.S.I Calcutta B. Tarapur Bombay C. Madras D. Vishakapatnam

22. Fish is the richest source of

A. Silica B. Protein C. Magnesium D. Zinc

23. The term aquarium was coined by.

A. Tasso Tayung B. Philip Henry Gosse C. Schaefer D. None

24. Sceintific name of Gold fish

A. Carissus auratus B. Labeorohita C. Catlacatla D. None

25. Which country is the largest market of the ornamental fishes

A. Singapore B. India C. USA D. Thailand

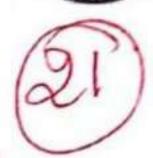


SRI CHINTALAPATI VARA PRASADA MURTHY RAJU GANAPAVARAM-534 198

GOVERNMENT DEGREE COLLEGE



ESTD. 1972 • AFFILIATED TO ADIKAVI NANNAYA UNIVERSITY • ACCREDITED NAAC 'B'



DEPARTMENT OF ZOOLOGY

Certificate Couse on Ornamental fishes & Maintenance of Aquarium

SUMMATIVE ASSESSMENT Test- 16-02-2022 Name of the Student: B. Baby saroja Max. Marks: 25 Class IL MPC Time: 50 minutes Admn No : 6850 1. Which one is a floating aquatic weed A. Water lilly B. Lotus (C.) Water hyacinthD. Hydrilla 2. Which one is mainly responsible for growth in fishes A. Starch (B)Amino acidC. Vitamins D. Fatty acid 3. Which is the sign of diseased fish (A) Eroded skinB. Normal swimming C. Absence of spots D. Bright colouration 4. Fish species likely to be in danger of extinction in the near future are called as A. Endangered B. Rare (C.) Vulnerable D. None 5. Pituitary extract is preserved with -----A. Absolute alcohol (B.)Glycerine c. Acetone D. Freezing 6. Free swimming larvae of ----- feed on mucous of their parents. C. Gold fish B. Severum A. Angel 7. Pistia is a type of weed B. Sub-merged C. Marginal D. Algal weed 8. Fishes feeding on single type of feed are known as

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(Affiliated to Adikavi Nannaya University, Rajamahendravaram, A.P.)

Department of Zoology

Certificatecourseon"Ornamental fishes & Maintenance of Aquarium"

Academic Year: 2021-22 RESULT SHEET

SI.No.	Admn.No.	Class	Name of the Student	FA Marks 15	SA Marks 25	Total 40	Grade	Signature of Student
1	6929	IIMPC	Achanta. Yesu Raju	12	19	31	Α	A YesuRaju
2	6850	II MPC	Bontha Baby Saroja	12	21	33	Α	B.B. Sarois
3	6851	II MPC	Chittabattula Divyasri	10	18	28	В	ch: Dygas
4	6852	II MPC	Digamarthi Rathna Manikyam	08	14	22	С	D.R.Maniky
5	6853	II MPC	Eeli Vasanth	09	18	27	В	E. Vascuth
6	6854	II MPC	Gorripati Sandhya	10	17	27	В	G. Gardhya
7	6855	II MPC	Jami Venkata Vallika	09	15	24	С	J. Ventocota uo
8	6856	II MPC	Jonnada Sai Meghana	11	19	30	Α	J. Sai Hegho
9	6858	II MPC	Nagisetti Sai Raju	AB	AB	AB	AB	N.S. Roje
10	6859	II MPC	Neelam Sai	08	18	26	В	N.Sai
11	6860	II MPC	Nidamanuri. Dinesh Kumar	11	21	32	Α	N. Dinesh
12	6861	II MPC	Nimmala Dhana Surekha	10	15	25	С	N.D. Sweet
13	6862	II MPC	Salimatti Hadyasa	12	20	32	A	s. Hodyasa
14	6863	II MPC	Singidi Sravathi	08	13	21	C	Sessavant
15	6864	II MPC	Vanapalli Bhagya Priya	13	18	31	Α	V.B. Buyo
16	6865	II MPC	Varlothu Vijay Kumar	12	20	32	Α	Y.V. Kumo
17	6866	II MPC	Vipparti David Raju	12	18	30	А	
18	6902	II BZC	Banreddy Chiranjeevi Sai Kumar	AB	AB	AB	AB	V. David
19	6903	II BZC	Bocha Tirumala Sai	AB	AB	AB	AB	B.T.Symalas
20	6922	II BZC	Bodasingi Vineetha	13	21	34	A	Buneetho

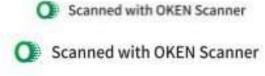
Grade 30-A, 26 to 30 - B, 21 to 25 - C, 15 to 20 - D, < 15 - F

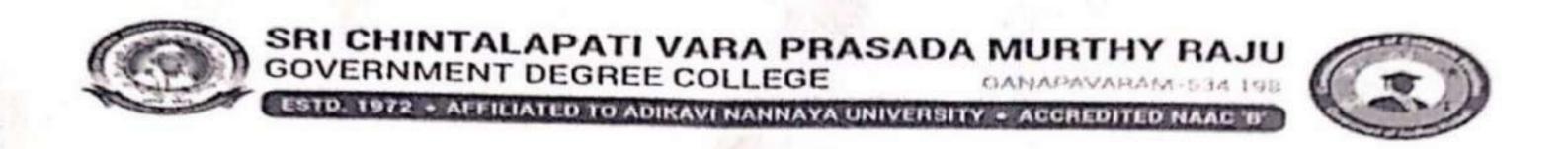
Course Coordinator

PRINCIPAL

S.CH.V.P.M.R.Govt.Degree College
GANAPAVARAM-534198. (W.G.Dist)







Certificate Course on Ornamental fishes & Maintenance of Aquarium

REPORT

The Department of Zoology has started a certificate course on "Ornamental Fishes & Maintenance of Aquarium" on 30-11-2021. Twenty students from II BSc Joined and completed the course successfully. The certificate course was specially designed to enhance awareness and skill among the students on the advantages of studying Aquarium Fish Keeping as a Skill Enhancement Course. The participants were taught the different methods for fabricating aquariums with advantages and disadvantages of each method. The importance of selecting the right material with proper dimensions were explained. Apart from the material, the information on the right choice of the position was illustrated. The essential components required in a closed aquatic system were explained. The importance of maintaining optimum temperature, dissolved oxygen and other parameters of water were explained. The role of each component was dealt with by the functional correlation to maintain the aquarium.

Learning outcomes:

- Student enables to set aquarium
- Student enables to manage the home as well as commercial aquariums
- Students will learn to handle different aquarium equipments
- Students will learn Decorations of aquarium

Sk. Parveen Course Co- ordinator

S.CH.V.P.M.R.Govt.Degree Cu GANAPAVARAM-534198. (W.G.Di:



CERTIFICATE

This is to certify that

ACHANTA YESU RAJU, II MPC (Admission No. 6929)

of

SCHVPMR GOVERNMENT DEGREE COLLEGE, WEST GODAVARI, ANDHRA PRADESH has successfully completed the certificate course in "ORNAMENTAL FISHES & MAINTENANCE OF AQUARIUM" conducted from 30 November to 15 February, 2022 offered by the Department of Zoology with grade "A".

Sk. Parveen

Course Co-ordinator

Dr T. Akki Raju

IQAC Co-ordinator

Dr M. Syambab

Principal





CERTIFICATE

This is to certify that

BONTHA BABY SAROJA, II MPC (Admission No. 6850)

of

SCHVPMR GOVERNMENT DEGREE COLLEGE, WEST GODAVARI, ANDHRA PRADESH has successfully completed the certificate course in "ORNAMENTAL FISHES & MAINTENANCE OF AQUARIUM" conducted from 30 November to 15 February, 2022 offered by the Department of Zoology with grade "A".

Sk. Parven

Course Co-ordinator

Dr T. Akki Raju

IQAC Co-ordinator

Dr M. Syambab

Principal



