

**SML GOVT. DEGREE COLLEGE,**

**YEMMIGANUR**

**CERTIFICATE COURSE**

**ON**

**“ORNAMENTAL FISHES”**

**ORGANISED BY**

**DEPARTMENT OF ZOOLOGY**

**2021-2022**

**AV MOHAN NAIDU**  
LEC.IN ZOOLOGY

**P RAMANJANEYULU**  
LEC.IN ZOOLOGY

**Dr K MAHABOOB BASHA**  
**PRINCIPAL**

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A V MOHAN NAIDU

Dept of Zoology

## Certificate course –Ornamental fishes

### Brief report:

The department of zoology Sri Mahayogi Lakshamma Govt Degree College organized a certificate course in “**Ornamental fishes**” for B.Sc students during the academic year 2021-2022 for period of 45 days ie 13-07-2022 to 30-08-2022

In this connection **Dr K. Mahaboob Basha**, principal of the college presided over the inaugural and expressed that it was very useful course for everyone in daily life.He also appreciated the faculty of zoology department for organizing the valuable certificate course.He advised the students to utilize it in a proper manner.

During the above period a few faculty members of college took part in the course actively and express their views and suggestions for betterment of the programme.The faculty members involved in the programme are

1.A. V. Mohan naidu Lec.in Zoology

2P. Ramanjaneyulu Lec.in Zoology

After completion of the course an assessment test conducted for partipation both in theory and practicals

Performance of the participants was well and good.

Date:13/07/2022

10  
13.7  
The Principal,  
SML Govt Degree College,  
Yemmiganur.

Sir,

Sub: Department of Zoology-to start a certificate course on "Ornamental fishes"  
Permission-request-regarding.

.....#.....

I am pleased to inform you that a certificate course on "Ornamental fishes" for B.Sc BZC students of our college is planned in this semester of 2021-2022 academic year by the department of Zoology .it will be conducted by the zoology department.

In this connection, I request you to kindly accord us permission to start the course for the benefit of the students as well as the society.

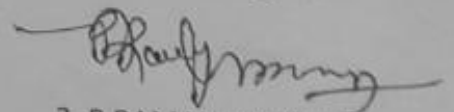
Yours faith full

1. Av mohan Naidu

1 AV MOHAN NAIDU

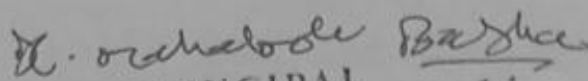
I/C of the dept of zoology

SML GDC Yemmiganur



2. P RAMANJANEYULU

Dept of zoology

  
PRINCIPAL  
S.M.L.Govt. Degree College  
YEMMIGANUR Kurnool (Dist.)

Date:13/07/2022

TO

The Principal,  
SML Govt Degree College,  
Yemmiganur.

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Yours faith full

1. *AV Mohan Naidu*

1 AV MOHAN NAIDU

I/C of the dept of zoology

SML GDC Yemmiganur

*P Ramanjaneyulu*

2. P RAMANJANEYULU

Dept of zoology

*JC. Maheshwale Bashe*

PRINCIPAL

S.M.L.Govt. Degree College  
YEMMIGANUR Kurnool (Dist.)

## DEPT. OF ZOOLOGY

Willingness of the students for the certificate course

## ORNAMENTAL FISHES

SNO	REGD NUMBER	NAME OF THE STUDENT	GROUP AND CLASS	MOBILE NO	SIGNATURE
1	21358049001	B MALLIKARJUNA	BSc(BZC)-II SEMESTER	6305151046	B. Mallikarjuna
2	21358049003	B NEELAKANTA	BSc(BZC)-I SEMESTER	8886893792	B. Neelakanta
3	21358049004	B UMA MAHESH	BSc(BZC)-I SEMESTER	76010304939	B. U. Mahesh
4	21358049006	B GANESH	BSc(BZC)-SEMESTER	9390904103	B. Ganesh
5	21358049007	B MALLI KRAJUNA	BSc(BZC)-SEMESTER	9014687486	B. Mallikarjuna
6	21358049008	B VEERESH	BSc(BZC)-SEMESTER	40306700147	B. Veeresh
7	21358049009	B SHIVA	BSc(BZC)-SEMESTER	9133130956	B. Shiva
8	21358049012	B VEERENDRA	BSc(BZC)-SEMESTER	6305551780	B. Veerendra
9	21358049014	B RAMA LINGAPPA	BSc(BZC)-SEMESTER	9347913267	B. Rama Lingappa
10	21358049016	C THULASI	BSc(BZC)-SEMESTER	7671064053	C. Thulasi
11	21358049017	E SURESH	BSc(BZC)-SEMESTER	9885092812	E. Suresh
12	21358049018	G NARASIMHULU	BSc(BZC)-SEMESTER	47195427459	G. Narasimhulu
13	21358049019	G NAGENDRA	BSc(BZC)-SEMESTER	8143164768	G. Nagendra
14	21358049020	J VAMSHI	BSc(BZC)-SEMESTER	7093551367	J. Vamsi
15	21358049021	J KATHIKEYA	BSc(BZC)-SEMESTER	9014484212	J. Kathikeya
16	21358049022	K ANITHA	BSc(BZC)-SEMESTER	8317512970	K. Anitha
17	21358049023	K M RAFFIQ	BSc(BZC)-SEMESTER	6300850276	K. M. Raffiq
18	21358049026	K ERESHA	BSc(BZC)-SEMESTER	9346700147	K. Eresha
19	21358049027	K SARADA	BSc(BZC)-SEMESTER	6304581390	K. Sarada
20	21358049028	K SHIVAMMA	BSc(BZC)-SEMESTER	7337260338	K. Shivamma
21	21358049031	M NARASIMHULU	BSc(BZC)-SEMESTER	8919681204	M. Narasimhulu
22	21358049032	M SIVA RAMI REDDY	BSc(BZC)-SEMESTER	9652044470	M. Sivarami Reddy
23	21358049034	M MALLIKARJUNA	BSc(BZC)-SEMESTER	7893497979	M. Mallikarjuna
24	21358049036	P SHAMEENA	BSc(BZC)-SEMESTER	7780374315	P. Shameena
25	21358049037	S MOUNIKA	BSc(BZC)-SEMESTER	9347786199	S. Mounika
26	21358049039	S NIDHA SULTHANA	BSc(BZC) SEMESTER	8919970612	S. Nidha Sultana
27	21358049042	T GOVINDU	BSc(BZC) SEMESTER	9652725332	T. Govindu
28	21358049043	T SHAIK SHAVALI	BSc(BZC) SEMESTER	9676946483	T. Shaik Shavali
29	21358049044	U STUTIMALA	BSc(BZC) SEMESTER	9686394360	U. Stutimala

*D. Mahadeva Babu*  
PRINCIPAL

S.M.L. Govt. Degree College  
YEMMIGANUR Kurnool (Dist.)

*Av. Mohan Reddy*

Lecturer in Zoology  
S.M.L. Govt. Degree College  
YEMMIGANUR





SML GOVT DEGREE COLLEGE YEMMIGANUR

DEPT. OF ZOOLOGY

Certificate course " ORNAMENTAL FISHES "

ATTENDANCE REGISTER

SNO	NAME OF THE STUDENT	GROUP&CLASS	21	22	23	24	25	26	27	28	29	30
1	B MALLIKARJUNA	BSc B2c §II	P	P	P	P	P	P	P	P	P	P
2	B NEELAKANTA	BSc B2c §II	P	A	A	A	P	P	P	P	P	P
3	B UMA MAHESH	BSc B2c §II	P	P	P	P	P	P	P	P	P	P
4	B GANESH	BSc B2c	P	A	A	P	P	P	P	P	P	P
5	B MALLI KRAJUNA	II BSc B2c	P	P	P	P	P	P	P	P	P	P
6	B VEERESH	II BSc B2c	P	P	P	P	P	P	P	P	P	P
7	B SHIVA	II BSc B2c	P	P	P	P	P	P	P	P	P	P
8	B VEERENDRA	II BSc B2c	P	P	P	P	P	P	P	P	P	P
9	B RAMA LINGAPPA	II BSc B2c	A	A	P	P	A	A	P	P	P	P
10	C THULASI	II BSc B2c	P	P	P	P	P	P	P	P	P	P
11	E SURESH	II BSc B2c	P	P	P	P	P	P	P	P	P	P
12	G NARASIMHULU	II BSc B2c	P	P	P	P	P	P	P	P	P	P
13	G NAGENDRA	II BSc B2c	P	P	P	P	P	P	P	P	P	P
14	J VAMSHI	II BSc B2c	P	P	P	P	P	P	P	P	P	P
15	J KATHIKEYA	II BSc B2c	P	P	P	P	P	P	P	P	P	P
16	K ANITHA	II BSc B2c	P	P	P	P	P	P	P	P	P	P
17	K M RAFFIQ	II BSc B2c	P	P	P	P	P	P	P	P	P	P
18	K ERESHA	II BSc B2c	P	P	P	P	P	P	P	P	P	P
19	K SARADA	II BSc B2c	P	P	P	P	A	P	P	P	P	P
20	K SHIVAMMA	II BSc B2c	P	P	P	P	P	P	P	P	P	P
21	M NARASIMHULU	II BSc B2c	P	P	P	P	P	P	P	P	P	P
22	M SIVA RAMI REDDY	II BSc B2c	P	P	P	P	P	P	P	P	P	P
23	M MALLIKARJUNA	II BSc B2c	P	P	P	P	P	P	P	P	P	P
24	P SHAMEENA	II BSc B2c	P	P	P	P	P	P	P	P	P	P
25	S MOUNIKA	II BSc B2c	P	P	P	P	P	P	P	P	P	P
26	S NIDHA SULTHNA	II BSc B2c	P	P	P	P	P	P	P	P	P	P
27	T GOVINDU	II BSc B2c	P	P	P	P	P	P	P	P	P	P
28	T SHAIK SHAVALI	II BSc B2c	P	P	P	P	P	P	P	P	P	P
29	U STUTIMALA	II BSc B2c	P	P	P	P	P	P	P	P	P	P

*X. Sathya Prasad*

PRINCIPAL

S.M.L. Govt. Degree College  
YEMMIGANUR Kurnool (Dist.)

*Arumohan Naidu*  
Dept of Zoology.

CERTIFICATE COURSE – ORNAMENTAL FISHES

2020-2021

Total Hours-45

SYLLABUS

**UNIT-I Introduction to Aquaculture and Ornamental Fishes Trading (15 Hours)**

- Basics of aquaculture-definition and scope. History of aquaculture: Present global and national scenario.
- Different varieties of exotic and indigenous fishes.
- Basic knowledge and profile of some selected indigenous Indian ornamental fishes.

**UNIT- II Construction of aquarium (15 Hours)**

- Design and construction of public fresh water aquaria
- Aerators, filters and lighting.
- Biofilters in aquarium

**UNIT-III Ornamental fish farming-Management Aspects (15 Hours)**

- Introduction to aquarium and aquarium accessories.
- Ornamental Fish-diseases and their management
- Live Food for tropical ornamental fish .

**PRACTICAL**

- 1) Identification of common live bearer ornamental fishes: - Guppy, Molly, Platy, Sword Tail,
- 2) Identification of common Egg layer ornamental fishes: - Angel, Neon tetra
- 3) Identification of common Egg layer ornamental fishes: Discus and Siamese fighter
- 4) Identification of common Egg layer ornamental fishes: Gold fish, Koi Carp,
- 5) Identification of ornamental fish diseases and prophylactic measures.
- 6) Identification of aquarium plants (02 practical)

*D. Mahadevi Bhat*  
PRINCIPAL

S.M.L.Govt. Degree College  
YEMMIGANUR Kurnool (Dist.)

*Av Mohan Naidu*  
1/2 Dept of Zoology

DEPARTMENT OF ZOOLOGY  
Second Year Degree - IV Semester  
Certificate Course Exam - ORNAMENTAL FISHES

Time : 3 hours

Max.Marks : 50M

Part- A

I. వివైనా నాలుగు ప్రశ్నలకు సమాధానం

ఇవ్వండి.

4x5M = 20M

1. ఆక్వాల్యూర్ మరియు దాని పరిధిని నిర్వచించండి.
2. వివిధ దేశీయ చేపల గురించి వ్రాయండి.
3. అలంకారమైన చేపలలో చేపల వ్యాధిని ప్రభావితం చేసే ప్రధాన కారకాలు ఏమిటి.
4. ఏరేటర్ల ఉపయోగం ఏమిటి.
5. అక్వేరియంలో ఉపయోగించే వివిధ రకాల పరికరాలు / సాధనాలు.
6. అలంకారమైన చేపల కోసం లైవ్ ఫీడ్స్ గమనిక రాయండి.

Part -B

II. కింది వాటికి సమాధానం ఇవ్వండి.

3x10M = 30M

7. a) ఆక్వాల్యూర్ యొక్క ప్రస్తుత గ్లోబల్ సినారియోపై సంక్షిప్త వ్యాఖ్యను వ్రాయండి?

లేదా

బి) (విదేశీ మరియు స్వదేశీ అలంకరణ చేపల యొక్క వివిధ రకాలు & వాటి నిర్వహణను వివరింపుము?

8. a) పబ్లిక్ అక్వేరియం నిర్మాణానికి వివిధ పద్ధతులను వివరించండి?

లేదా

బి) అక్వేరియంలోని బయో-ఫిల్టర్లు మరియు వాటి ఉపయోగాల గురించి వివరంగా చర్చించండి?

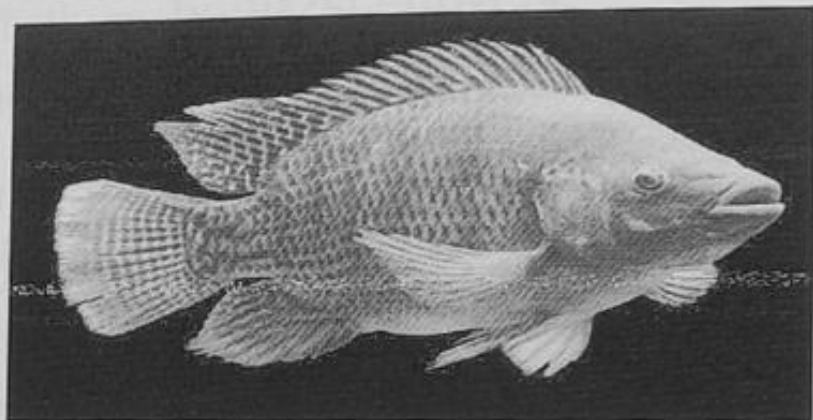
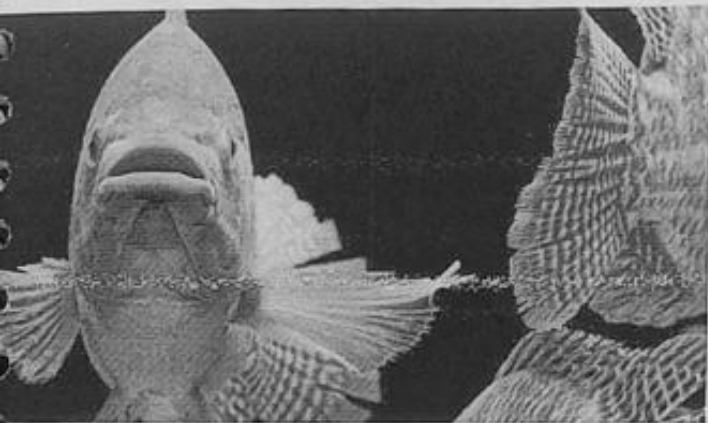
9. a) అలంకరణ చేపల కోసం వివిధ అక్వేరియం ఉపకరణాల గురించి వివరించండి?

లేదా

బి) అలంకరణ చేపలలో ప్రజననం మరియు అలంకార చేపల యొక్క దాణా గూర్చి వివరించండి.

# ENDEMIC SPECIES OF AQUARIUM FISHES

Name-Md Samiul Islam, Sem-4, Roll no-193115-21-0157



## ➤ what are endemic Fishes

**Fish endemic** to India refers to the **fish** species which are restricted to the geographical range of India and become unavailable in other such regions. Aquatic environment is experiencing serious threats with regard to ecosystem stability resulting loss of aquatic biodiversity

### What is ornamental fish?

Ornamental fish are kept or reared for their attractiveness. The breeding of ornamental fish began over

1000 years ago with the domestication of goldfish in China, and nowadays many fish species are highly prized for their distinct markings (eg, koi carp).

These include both classified and non-classified aquarium fishes

### 1. Classified

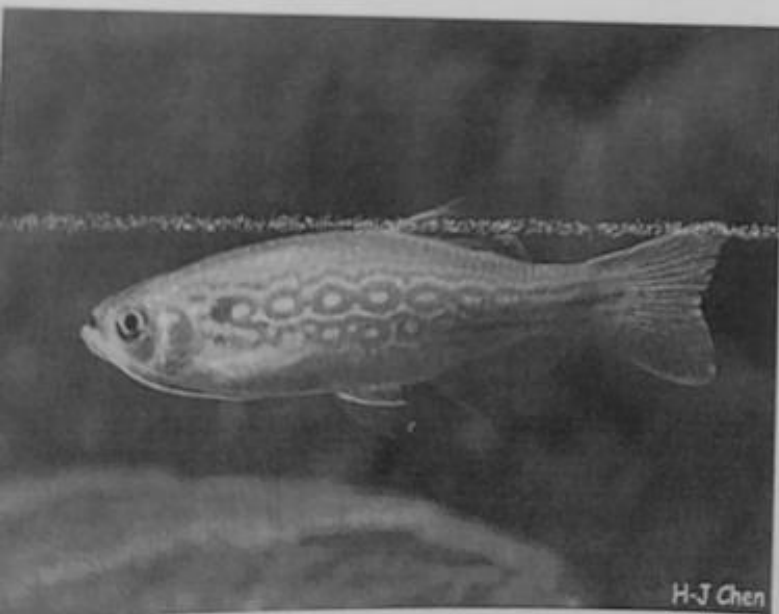
The fishes that can be reared in aquaria throughout their life span

Ex- B. dario, D. dangila, B. badis

### 2. Non-classified

The food fishes that are use in aquaria during their juvenile stage.

Ex- C. Chitala, L. Calbasu



*SOISTEAS CRITALA*  
(Capt. Am. Dr. Daji "Fishes of India.")

Classified

Non-Classified

## Diversified ornamental characters

These living jewels need not always have bright colours, sometimes their peculiar characteristic such as body colours, morphology, mode of taking food, etc. May also add to their attractiveness.

### Ornamental characters

### Examples

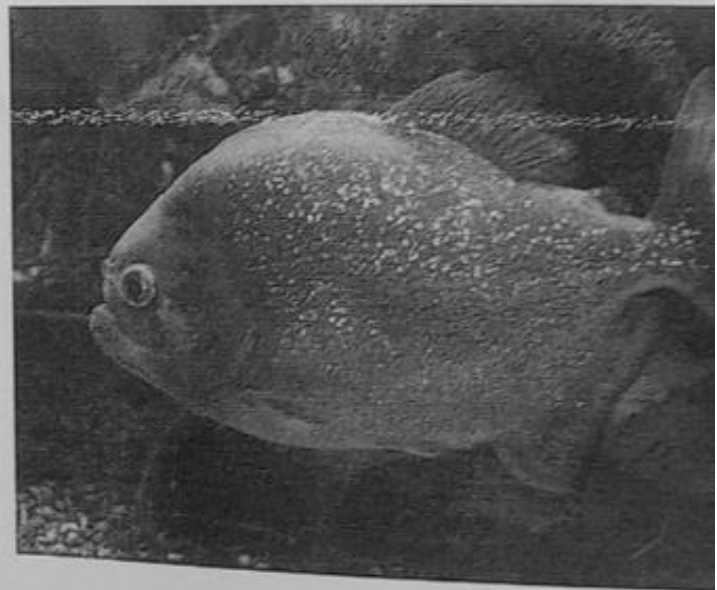
Beautiful colour	P. Sulcutas, C. lalia
Stripes and banding pattern	B. rostrata, B. dario
Chameleonic habit	B. badis bumanicus, p. Shalynius
Jumping behaviour	E. danricus, C. Laubuca
Charming predatory habit	C. Gacua, G. Giuris
Calm behaviour	C. Nobilis, N. Nadus
Transparent body	C. Nama, N. Baculis
Small size	B. rerio, dangila

Keeled abdomen

Chela Laubuca

### RESOURCES

A total of 1539 species ornamental fishes are traded worldwide, where India offers more than 374 fresh water ornamental fish species and near about 700 marine ornamental fish species. Besides, in ornamental fish sector about 288 exotic and 300 marine exotic fish are been used.



## Distribution of indigenous ornamental species

oWest Bengal : FW-190, MW-113 Lakshadweep Island: MW-155

oNorth-east India: FW-250 Gulf of manner: MW-150

oWestern ghats:FW-155 Andaman and Nicobar island: MW-150

## Categorization

### Aquarium fishes can be decided in to two board categories

▪ Egg layers: oviparous, fertilization external

1. Egg scatters

2. Egg buriers

3. Egg depositors

4. Nest builders

5. Mouth brooders: maternal/paternal

6. Mouth brooders/larvophile m b/communal parental care

▪ Live bearers: give birth to young ones

1. Ovoviviparous

2. Viviparous

**The commercially important  
Indigenous and non-indigenous  
species of ornamental fish  
farming are listed below**

Scientific name of species

Botia lohachata

Brachydanio rerio

Chandra nama

Common name of species

Reticulated loach

Zebra fish

Glass fish

Colisa chune

Labeo nandina

Labeo calbasu

Notopterus notopterus

Oreichthys cosuatis

Puntius conconius

Putunius denisonii

Honey gourami

Pencil gold labeo

All black shark

Black knife fish

Hi fin barb

Rosy barb

Deninsion, s-barb

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x

# Fish-Culture

The artificial reproduction, rearing and transplantation of fish is called pisciculture. It is also called fish farming. The term pisciculture is specific to aqua farming or the raising of fish inside of tanks or in house ponds. Pisciculture is a form of aquaculture as aquaculture is the scientific rearing and management of all aquatic animals. A facility that releases juvenile fish into the wild for recreational fishing or to supplement a species' natural numbers is generally referred to as a fish hatchery. Global demand is increasing for dietary fish protein, which has resulted in widespread overfishing in wild fisheries, resulting in significant decrease in fish stocks and even complete depletion in some regions. Fish farming allows establishment of artificial fish colonies that are provided with sufficient feeding, protection from natural predators and competitive threats, access to veterinarian service, and easier harvesting when needed, while being separate from and thus do not usually impact the sustainable yields of wild fish populations



# Aquaculture vs Pisciculture

More Information Online: [WWW.DIFFERENCEBETWEEN.COM](http://WWW.DIFFERENCEBETWEEN.COM)

## Aquaculture

Aquaculture is the process by which commercially valuable flora and fauna is bred, reared and harvested in salt water and fresh water

Produce both commercially valuable flora and fauna

Fish, crustaceans, mollusks and aquatic plants

Production of commercially valuable flora and fauna, assisting nutrient build up, decreasing the chance of disease outbreaks in aquatic environments, preventing the escape of nonnative species and increasing the quality of the final product

## Pisciculture

Pisciculture is culturing of fish in tanks or enclosures (fish ponds) to obtain fish products as a food source

Only produces fish and fish related food products

Fish species such as cod, carp, salmon, catfish and tilapia

Production of fish species as a source of food, production of fish related products such as fish proteins and reduction in over exploitation of wild fisheries

### DEFINITION

### COMMERCIALLY VALUABLE PRODUCTS

### PRODUCTS

### USES

## Intensive Aquaculture

An intensive fish farming system is the well-managed form of fish farming, in which all attempts are made to achieve maximum production of fish from a minimum quantity of water.

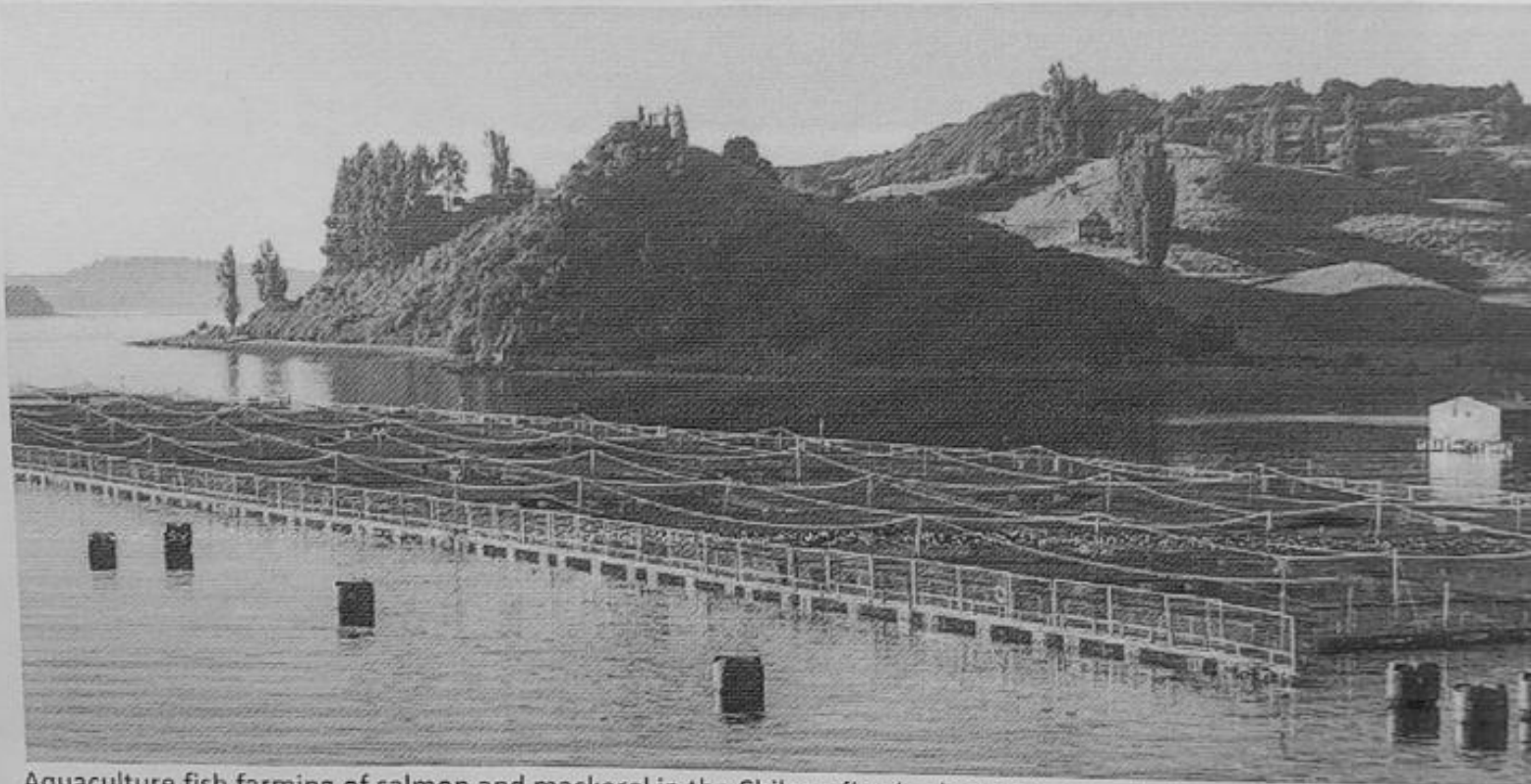
- This system involves small ponds/tanks/raceways with very high stocking density (10-50 fish/m<sup>3</sup> of water).
- Although intensive aquaculture is completely mechanized and self-contained it can have a detrimental impact on the environment.
- The biggest problem caused by intensive aquaculture is the difficulty in properly dealing with the nutrient rich effluent.
- Effluent contains high levels of both organic and inorganic nutrients like ammonia, phosphorus, dissolved organic carbon, dissolved organic nitrogen and dissolved organic phosphorus.
- If not disposed of correctly the effluent could cause a number of problems including eutrophication, and hypereutrophication
- Ingenious solutions have been developed to reduce the negative effects to the environment caused by this effluent. The most effective solution is the advent of aquaponics.

Aquaculture fish farming of salmon and mackerel in the Chilean fjords about 6 km south from Castro, on March 16, 2019. Fish pens and crew scow can be moved.

Aquaponics is the combination of Intensive aquaculture (fish farming) and hydroponics (growing plants without soil). Aquaponic systems use the nutrient rich effluent from fish tanks as fertilizers for produce. The advent of aquaponics has made the aquaculture industry into a sustainable and Eco-friendly

business. Aquaculture fish farming of salmon and mackerel in the Chilean fjords about 6 km south from Castro, on March 16, 2019. Fish pens and crew scow can be moved.

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## Extensive Aquaculture

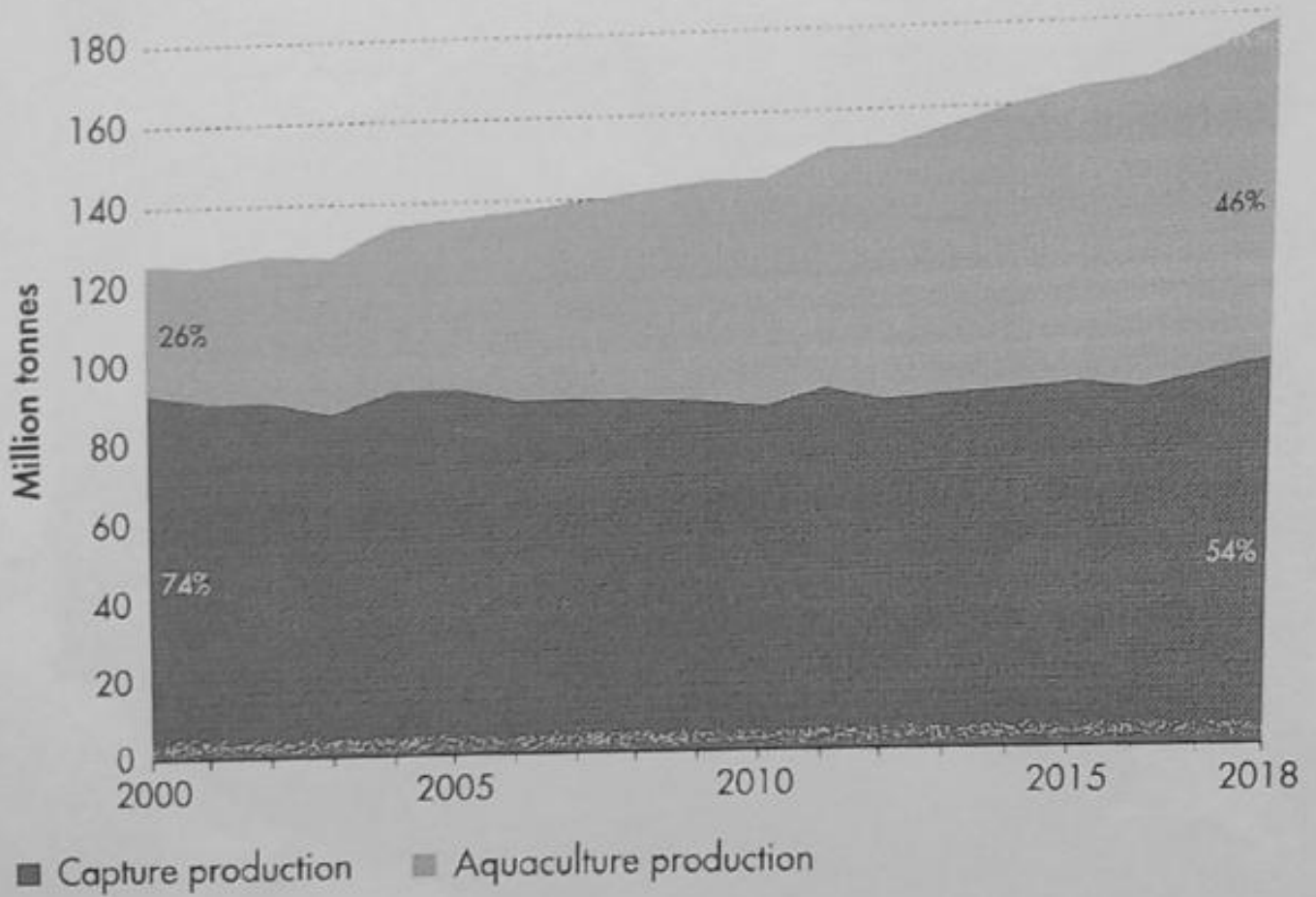
Extensive aquaculture is the other form of fish farming. It is more basic than intensive aquaculture in that less effort is put into the husbandry of the fish.

- Extensive aquaculture is done in the ocean, natural and man-made lakes, bays, rivers, and Fiords.
- Fish are contained within these habitats by multiple mesh enclosures which also function as trapping nets during harvest.
- Since fish are susceptible to the elements, site placement is essential to ensuring rapid growth of the targeted species.
- The drawback of these facilities is that they depend on the surrounding area for good water quality in order to reduce mortality and increase the survivorship. Fish chosen for extensive aquaculture are very hardy and often do well in high densities. Seaweed, prawns, muscles, carp, talapia, tuna and salmon are the most prominent forms of extensive aquacultured seafood.



- and growth rate of the fish.
- Fish chosen for extensive aquaculture are very hardy and often do well in high densities. Seaweed, prawns, muscles, carp, talapia, tuna and salmon are the most prominent forms of extensive aquacultured seafood .

Advertisements



Department of zoology

Second year degree –iv semester

Certificate course exam –ornamental fishes

Time: 3hours

max.marks ;50M

PART A

ANSWER ANY FOUR QUESTIONS

4\*5=20M

- 1 EXPLAIN THE SCOPE OF AQUACULTURE.
2. WRITE DIFFERENT INDIAN FISHES.
- 3 ORNAMENTAL FISH –DISEASES AND THEIR MANAGEMENT .
4. USES OF AERATORS.
- 5 DESIGN AND CONSTRUCTION OF AQUARIUM
6. LIVE FOOD FOR TROPICAL ORNAMENTAL FISH.

PART –B

ANSWER ALL QUESTIONS

- 7A HISTORY OF AQUACULTURE PRESENT GLOBAL AND NATIONAL SENARIO.(OR)
- B. DIFFERENT VARIETIES OF EXOTIC AND INDIGENOUS FISHES.
- 8A DESIGN AND CONSTRUCTION OF PUBLIC AQUARIUM
- B. USES OF BIO FILTERS IN AQUARIUM
- 9A. INTRODUCTION TO AQUARIUM AND AQUARIUM ACCESSORIES.
- B. LIVE FOOD AND BREEDING OF ORNAMENTAL FISHES.

## SML GOVT DEGREE COLLEGE YEMMIGANUR

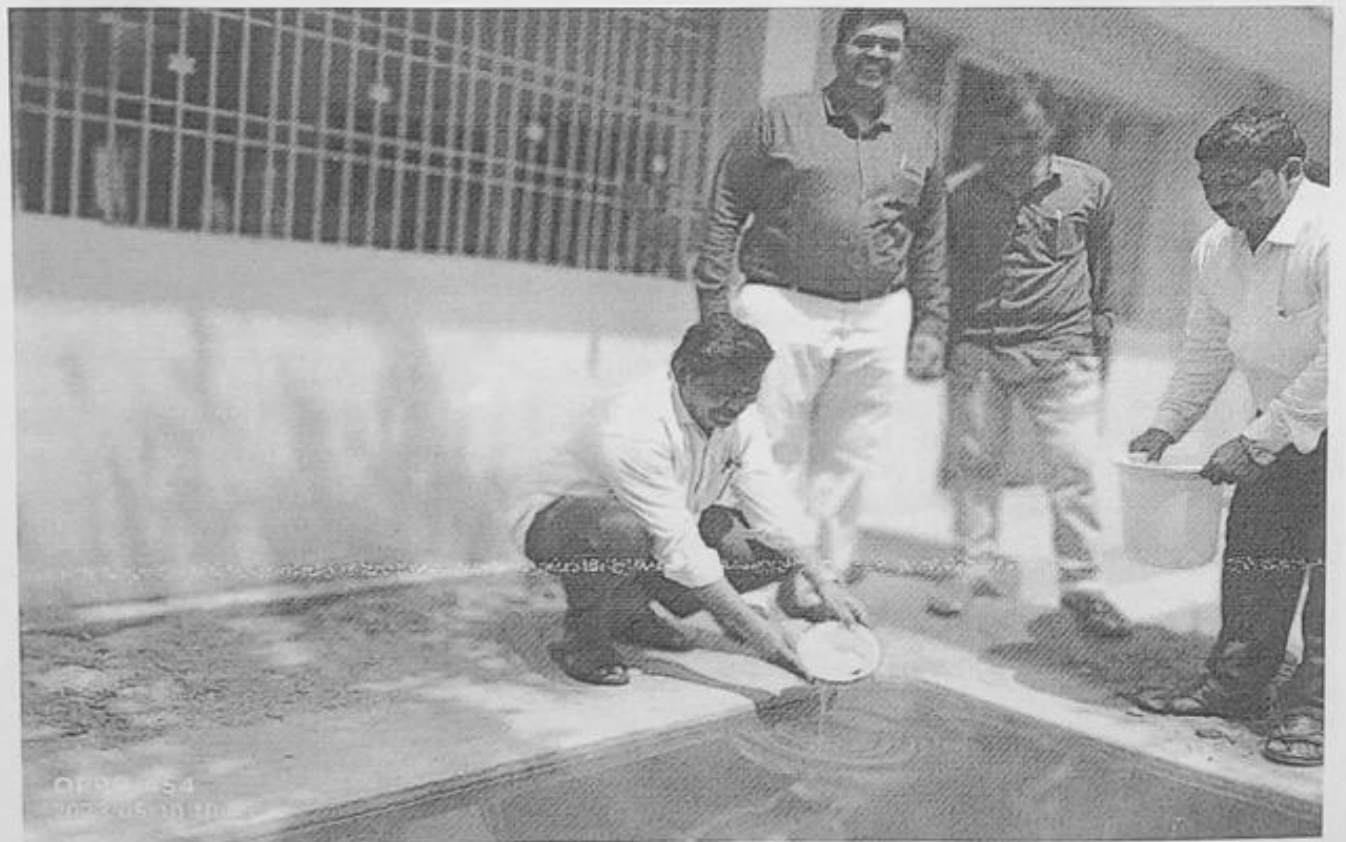
## DEPT OF ZOOLOGY

## CERTIFICATE COURSE "ORNAMENTAL FISHES"

## MARKS AWARD LIST

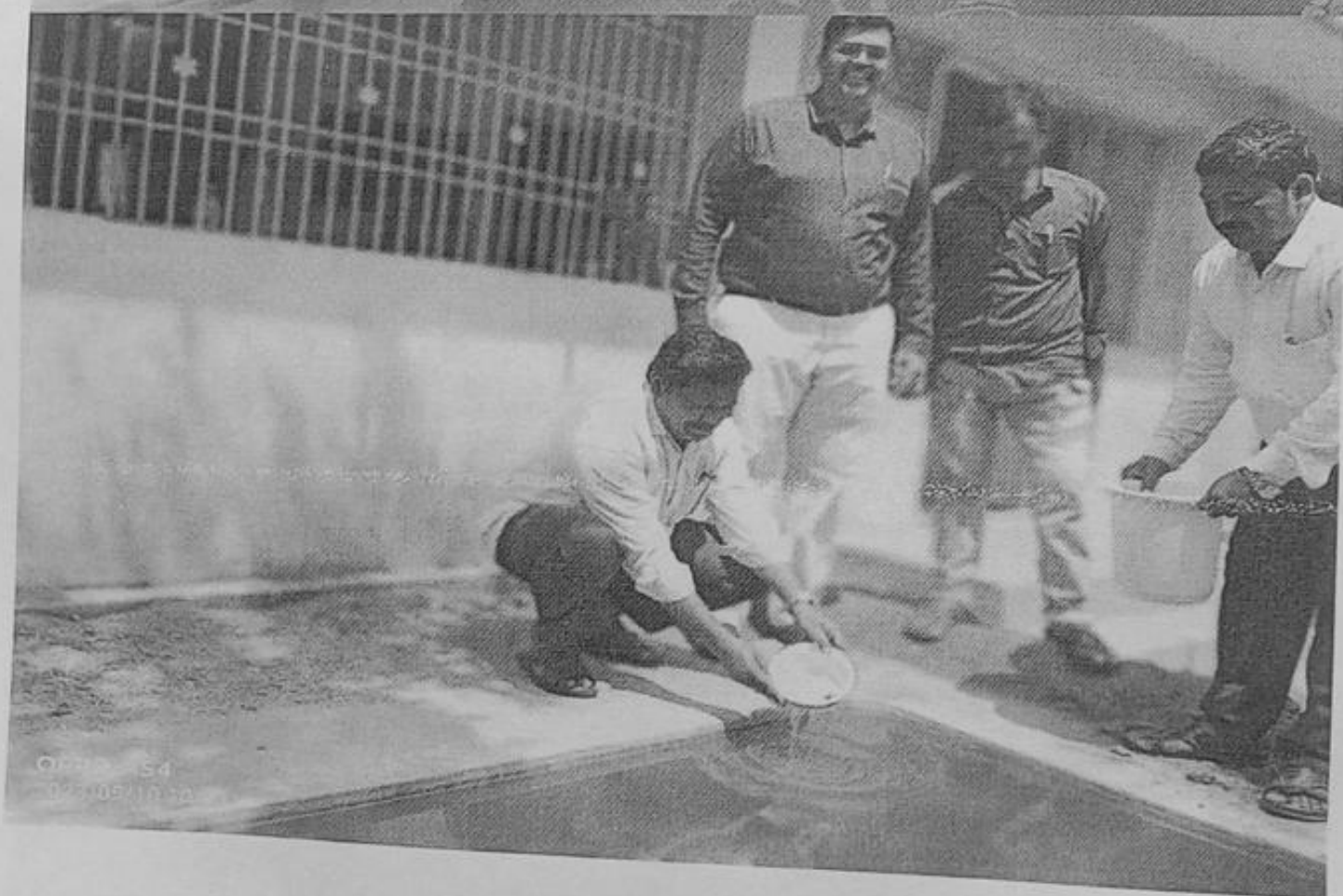
S.NO	HT NO	NAME	THEORY MARKS 50	GRADE	PRACTICAL S MARKS 50	GRADE	TOTAL
1	21358049001	B MALLIKARJUNA	36	B+	41	A	77
2	21358049003	B NEELAKANTA	31	B	36	B+	67
3	21358049004	B UMA MAHESH	46	A+	42	A	88
4	21358049007	B MALLIKARJUNA	36	B+	38	B+	74
5	21358049008	B VEERESH	31	B	36	B+	67
6	21358049009	B SHIVA	46	A+	47	A+	93
7	21358049012	B VEERENDRA	41	A+	42	A	83
8	21358049014	B RAMALINGAPPA	21	P	25	P	46
9	21358049016	C THULASI	36	B+	38	B+	74
10	21358049017	E SURESH	31	B	33	B	64
11	21358049018	G NARASIMHULU	41	A	44	A	85
12	21358049019	G NAGENDRA	41	A	42	A	83
13	21358049020	J VAMSHI	42	A	41	A	83
14	21358049021	J KARTHIKEYA	39	B+	40	B+	79
15	21358049022	K ANITHA	46	A+	47	A+	93
16	21358049023	K M RAFEEQ	48	A+	48	A+	96
17	21358049026	K ERESHA	31	B	34	B	65
18	21358049027	K SHARADA	37	B+	36	B+	73
19	21358049028	K SHIVAMMA	45	A	44	A	89
20	21358049031	M NARASIMHULU	44	A	45	A	89
21	21358049032	M SHIVARAMI REDDY	31	B	33	B	64
22	21358049034	M MALLIKARJUNA	46	A+	47	A+	93
23	21358049036	P SHAMEENA	36	B+	38		74
24	21358049037	S MOUNIKA	47	A+	46	A+	93
25	21358049039	S NIDHA SULTHANA	48	A+	47	A+	95
26	21358049042	T GOVINDU	36	B+	37		73
27	21358049043	T SHIK SHAVALI	31	B	33	B	64
28	21358049044	U STUTIMALA	41	A	42	A	83
29	21358089001	B CHINNA VERANNA	36	B+	37		73

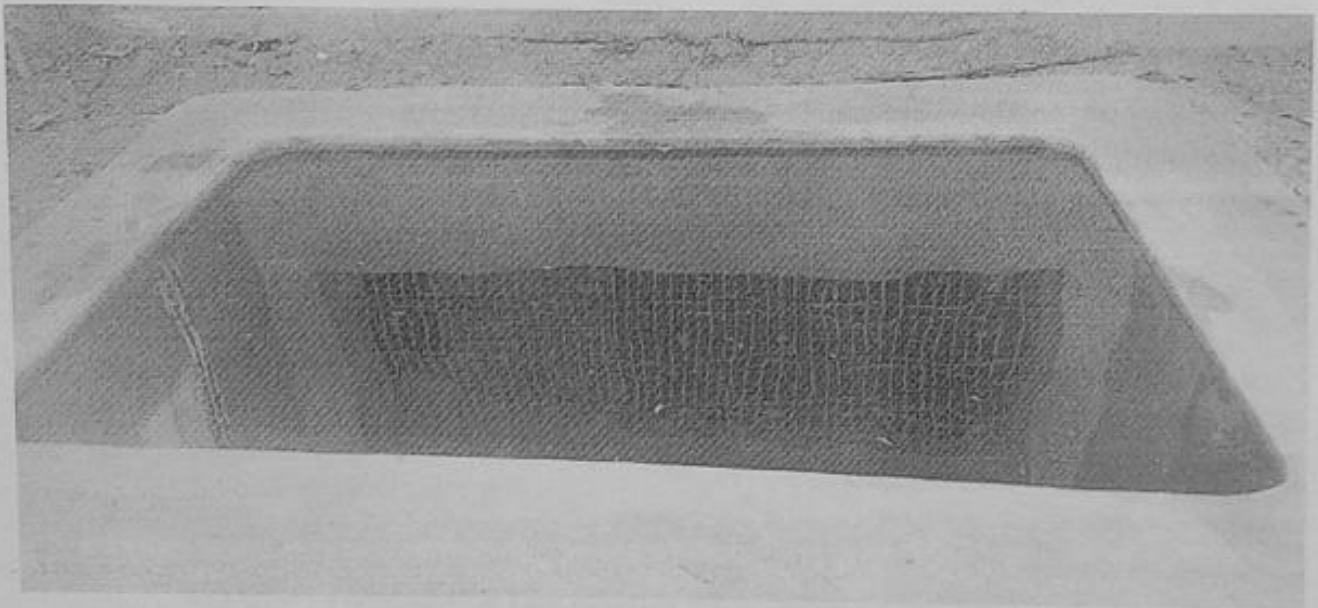
DEPARTMENT OF ZOOLOGY –ORNAMENTAL FISHES RELEASED IN FISH POND BY PRINCIPAL  
DR K .MAHABOOB BASHA GARU AND VICE PRINCIPAL B.VIJAYA KUMAR  
GARU



*K. Mahabob Basha*  
**PRINCIPAL**  
S.M.L.Govt. Dearee College  
YEMMIGANUR KUTHYUR (Dist.)

*Ar mohan S...*  
Dept of Zoology





FISH POND DEPT OF ZOOLOGY

*S. M. L. Govt. Degree College*  
PRINCIPAL  
S.M.L Govt. Degree College  
YEMMIGANUR Kurnool (Dist.)

*Av mohan Naidu*  
Dept. of Zoology



TO VISIT ORNAMENTAL FISHES AT YEMMIGANUR

*X. orahade bade*  
PRINCIPAL  
S.M.L.Govt. Degree College  
YEMMIGANUR Kurnool (Dist.)

*Ar moham n. l. n.*  
Dept. of Zoology.

## FEEDBACK FROM THE STUDENTS

Name Of The Student: B. MallikaRjuna

Course&Group	B.SC BZC - YEAR		
Regd.Number	21358049001		
Opinion	Excellent	Good ✓	Satsfactory

B. MallikaRjuna  
Signature Of the Student

Name Of The Student: B. Neelakanta

Course&Group	B.SC BZC - YEAR		
Regd.Number	21358049003		
Opinion	Excellent ✓	Good	Satsfactory

B. Neelakanta  
Signature Of the Student

Name Of The Student: B. Uma mahesh

Course&Group	B.SC BZC - YEAR		
Regd.Number	21358049004		
Opinion	Excellent	Good ✓	Satsfactory

B. Uma mahesh  
Signature of the Student

## FEEDBACK FROM THE STUDENTS

Name Of The Student: B. Mallikarjuna

Course&Group	B.SC BZC - YEAR		
Regd.Number	21358049007		
Opinion	Excellent	Good ✓	Satisfactory

B. Mallikarjuna  
Signature Of the Student

Name Of The Student: B. veeresh

Course&Group	B.SC BZC - YEAR		
Regd.Number	21358049008		
Opinion	Excellent ✓	Good	Satisfactory

B. veeresh  
Signature Of the Student

Name Of The Student: B. shiva

Course&Group	B.SC BZC - YEAR		
Regd.Number	21358049009		
Opinion	Excellent	Good ✓	Satisfactory

B. shiva  
Signature of the Student

## FEEDBACK FROM THE STUDENTS

Name Of The Student: B. Veerendra

Course&Group	B.SC BZC - YEAR		
Regd.Number	21358049012		
Opinion	Excellent	Good <input checked="" type="checkbox"/>	Satisfactory

B. Veerendra  
Signature Of the Student

Name Of The Student: B. Ramalingappa

Course&Group	B.SC BZC - YEAR		
Regd.Number	21358049014		
Opinion	Excellent <input checked="" type="checkbox"/>	Good	Satisfactory

B. Ramalingappa  
Signature Of the Student

Name Of The Student: C. Thulasi

Course&Group	B.SC BZC - YEAR		
Regd.Number	21358049016		
Opinion	Excellent	Good <input checked="" type="checkbox"/>	Satisfactory

C. Thulasi  
Signature of the Student

## FEEDBACK FROM THE STUDENTS

Name Of The Student: E. Suresh

Course&Group	B.SC BZC - YEAR		
Regd.Number	21358049017		
Opinion	Excellent ✓	Good	Satisfactory

E. Suresh  
Signature Of the Student

Name Of The Student: G. Narasimhulu

Course&Group	B.SC BZC - YEAR		
Regd.Number	21358049018		
Opinion	Excellent	Good ✓	Satisfactory

G. Narasimhulu  
Signature Of the Student

Name Of The Student: G. Nagendra

Course&Group	B.SC BZC - YEAR		
Regd.Number	21358049019		
Opinion	Excellent	Good ✓	Satisfactory

G. Nagendra  
Signature of the Student

## FEEDBACK FROM THE STUDENTS

Name Of The Student: J. Vamsi

Course&Group	B.SC BZC - YEAR		
Regd.Number	21358049020		
Opinion	Excellent	Good ✓	Satisfactory

*J. Vamsi*  
Signature Of the Student

Name Of The Student: J. Karthikeya

Course&Group	B.SC BZC - YEAR		
Regd.Number	21358049021		
Opinion	Excellent ✓	Good	Satisfactory

*J. Karthikeya*  
Signature Of the Student

Name Of The Student: K. Anitha

Course&Group	B.SC BZC - YEAR		
Regd.Number	21358049022		
Opinion	Excellent	Good ✓	Satisfactory

*K. Anitha*  
Signature of the Student

## FEEDBACK FROM THE STUDENTS

Name Of The Student: *K. M. Rafeea*

Course&Group	B.SC BZC - YEAR		
Regd.Number	21358049023		
Opinion	Excellent	Good ✓	Satisfactory

*K. M. Rafeea*  
Signature Of the Student

Name Of The Student: *K. Eresha*

Course&Group	B.SC BZC - YEAR		
Regd.Number	21358049026		
Opinion	Excellent ✓	Good	Satisfactory

*K. Eresha*  
Signature Of the Student

Name Of The Student: *K. Sharada*

Course&Group	B.SC BZC - YEAR		
Regd.Number	21358049027		
Opinion	Excellent ✓	Good	Satisfactory

*K. Sharada*  
Signature of the Student

## FEEDBACK FROM THE STUDENTS

Name Of The Student: K. Shivamma

Course&Group	B.SC BZC - YEAR		
Regd. Number	21358049028		
Opinion	Excellent	Good <input checked="" type="checkbox"/>	Satisfactory

K. Shivamma  
Signature Of the Student

Name Of The Student: M. Narasimhulu

Course&Group	B.SC BZC - YEAR		
Regd. Number	21358049031		
Opinion	Excellent	Good <input checked="" type="checkbox"/>	Satisfactory

M. Narasimhulu  
Signature Of the Student

Name Of The Student: M. Shivarani Reddy

Course&Group	B.SC BZC - YEAR		
Regd. Number	21358049032		
Opinion	Excellent <input checked="" type="checkbox"/>	Good	Satisfactory

M. Shivarani Reddy  
Signature of the Student

# FEEDBACK FROM THE STUDENTS

Name Of Th

Name Of The Student: M. Mallika Rajuna

Course&Group	B.SC BZC - YEAR		
Regd.Number	21358049034		
Opinion	Excellent	Good ✓	Satsfactory

M. Mallika Rajuna  
Signature Of the Student

Name Of The Student: P. shameena

Course&Group	B.SC BZC - YEAR		
Regd.Number	21358049036		
Opinion	Excellent ✓	Good	Satsfactory

P. shameena  
Signature Of the Student

Name Of The Student: S. Mounika

Course&Group	B.SC BZC - YEAR		
Regd.Number	21358049037		
Opinion	Excellent	Good ✓	Satsfactory

S. Mounika  
Signature of the Student

## FEEDBACK FROM THE STUDENTS

Name Of The Student: S. Nidha Sulthana

Course&Group	B.SC BZC - YEAR		
Regd.Number	21358049039		
Opinion	Excellent ✓	Good	Satisfactory

S. Nidha Sulthana  
Signature Of the Student

Name Of The Student: T. Govindu

Course&Group	B.SC BZC - YEAR		
Regd.Number	21358049042		
Opinion	Excellent ✓	Good	Satisfactory

T. Govindu  
Signature Of the Student

Name Of The Student: T. Shik shavali

Course&Group	B.SC BZC - YEAR		
Regd.Number	21358049043		
Opinion	Excellent ✓	Good	Satisfactory

T. Shik shavali  
Signature of the Student

FEEDBACK FROM THE STUDENT

Name Of The Student: *U. Stutimala*

Course&Group	B.SC BZC - YEAR		
Regd.Number	21358049044		
Opinion	Excellent	Good ✓	Satisfactory

*U. Stutimala*  
Signature Of the Student

Name Of The Student: *B. chinna veranna*

Course&Group	B.SC BZC - YEAR		
Regd.Number	21358089001		
Opinion	Excellent ✓	Good	Satisfactory

*B. chinna veranna*  
Signature Of the Student

Name Of The Student:

Course&Group	B.SC BZC - YEAR		
Regd.Number			
Opinion	Excellent	Good	Satisfactory

Signature of the Student



# SML GOVERNMENT DEGREE COLLEGE

(Affiliated to Rayalaseema University, Kurnool)  
Yemmiganur, Kurnool Dist



ESTD. 1982

Accredited by NAAC: B Grade

## CERTIFICATE COURSE IN ORNAMENTAL FISHES

This is to certify that Mr/Ms B. Malli Karjuna of I BZC,

Regd No: 21358049001 has Successfully completed the Certificate Course in ORNAMENTAL FISHES organised by the Department Of Zoology during the Academic year 2021-2022 from 13.07.2022 to 30.08.2022.

(A.V. MOHAN NAIDU)  
I/C Dept of Zoology  
P. RAMANJANEYULU  
LECTURER IN ZOOLOGY

(Dr.K.Mahaboob Basha)

*Dr. Mahaboob Basha*  
Principal  
S.M.L. Govt. Degree College  
YEMMIGANUR Kurnool (Dist.)



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Yemmiganur, Kurnool Dist



ESTD.1982

Accredited by NAAC: B Grade

## CERTIFICATE COURSE IN ORNAMENTAL FISHES

This is to certify that Mr/Ms B. Uma Mahesh of T BZC,

Regd No: 21358049004 has Successfully completed the Certificate Course in ORNAMENTAL FISHES organised by the Department Of Zoology during the Academic year 2021-2022 from 13.07.2022 to 30.08.2022.

(A.V. MOHAN NAIDU)  
I/C Dept of Zoology  
P. RAMANJANEYULU  
LECTURER IN ZOOLOGY

*Dr. Mahaboob Basha*  
(Dr.K.Mahaboob Basha)  
PRINCIPAL  
S.M.L. Degree College  
YEMMIGANUR Kurnool (Dist.)



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Yemmiganur, Kurnool Dist



ESTD.1982

Accredited by NAAC:B Grade

## CERTIFICATE COURSE IN ORNAMENTAL FISHES

This is to certify that Mr/Ms K. Shivamma of 7 BZC,

Regd No: 21358049028 has Successfully completed the Certificate Course in ORNAMENTAL FISHES organised by the Department Of Zoology during the Academic year 2021-2022 from 13.07.2022 to 30.08.2022.

(A.V. MOHAN NAIDU)  
I/C Dept of Zoology  
P. RAMANJANEYULU  
LECTURER IN ZOOLOGY

*Dr. Mahaboob Basha*  
(Dr.K.Mahaboob Basha)  
PRINCIPAL  
S.M.L.Government College  
YEMMIGANUR Kurnool (Dist.)



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ESTD. 1982

Accredited by NAAC: B Grade

## CERTIFICATE COURSE IN ORNAMENTAL FISHES

This is to certify that Mr/Ms K. Mahammed Rafiq of T BZC,

Regd No: 21358049023 has Successfully completed the Certificate Course in ORNAMENTAL FISHES organised by the Department Of Zoology during the Academic year 2021-2022 from 13.07.2022 to 30.08.2022.

(A.V. MOHAN NAIDU)

I/C Dept of Zoology

P. RAMANJANEYULU

LECTURER IN ZOOLOGY

  
(Dr.K.Mahaboob Basha)  
PRINCIPAL

S.M.Principaldyree College  
YEMMIGANUR Kurnool (Dist.)