

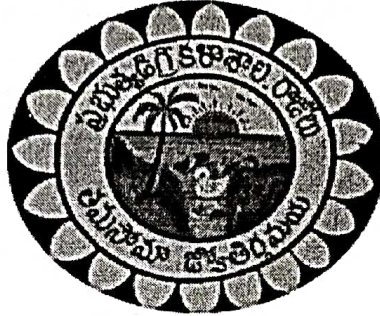
# GOVERNMENT DEGREE COLLEGE

(NAAC Accredited at 'B' Level)

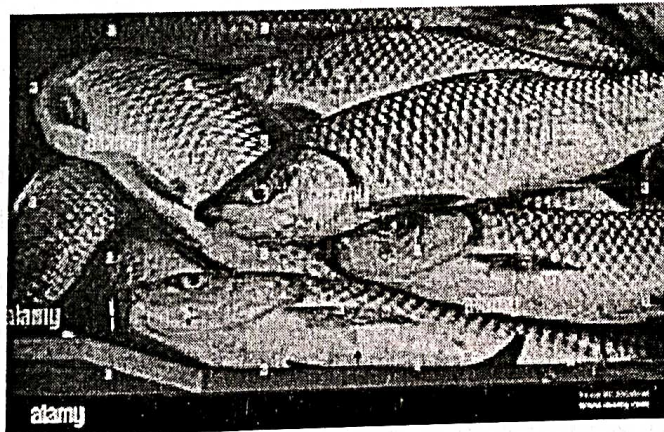
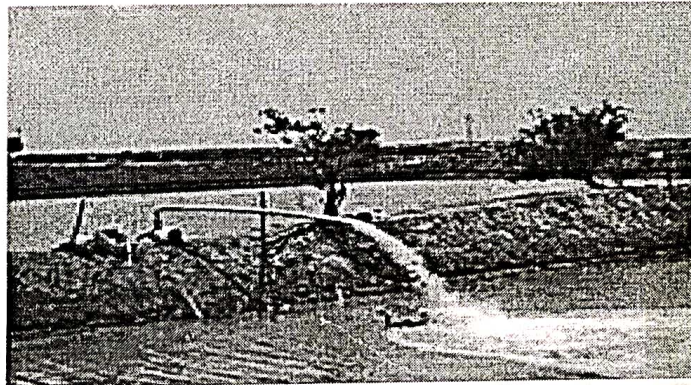
Razole-533 242, EAST GODAVARI District (A.P)

**Department of Zoology**

2017-18



Certificate Course on "AQUACULTURE"

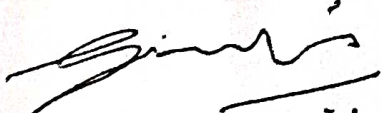


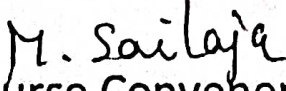
# GOVERNMENT DEGREE COLLEGE , RAZOLE

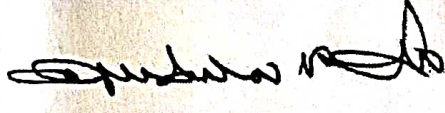
## Department of zoology

### NOTICE

The Department of Zoology is happy to inform you that a certificate course in 'Aquaculture' will be started from 16-09-2017 to 15-11-2017 . This is open to all the students of this College , those who are interested to join in this course may contact Smt. G. Naga Mani . Head of the Department for further details .

  
Course Director  
LECTURER IN ZOOLOGY  
Government Degree College  
RAZOLE

  
M. Sailaja  
Course Conveher  
LECTURER IN ZOOLOGY  
Government Degree College  
RAZOLE

  
PRINCIPAL  
PRINCIPAL  
Government Degree College  
RAZOLE . C.G.O.,

# Student Enrolment - 2017-18

| No  | Regd. No     | Name                   | Signature of the student |
|-----|--------------|------------------------|--------------------------|
| 1.  | 151077110037 | BONDADA PRIYANKA       | B. Priyanka              |
| 2.  | 151077110049 | MORI DEVI              | M. Devi                  |
| 3.  | 151077110052 | PATNALA SAI            | P. Sai                   |
| 4.  | 151077110046 | KONA BHUSWARUPA        | Kona Bhushwarupa         |
| 5.  | 151077110050 | MUSUDI MARY JYOTHI     | M. Mary jyothi           |
| 6.  | 151077110054 | RAPAKA DURGA BHAVANI   | R.D. Bhavani             |
| 7.  | 151077110036 | BOKKA JAKESH           | B. Jakesh                |
| 8.  | 151077110042 | GUJTU VITAYA KUMAR     | G. Vijaya kumar          |
| 9.  | 151077110043 | JAGATHADI DURGA RAJU   | J. Durga raja            |
| 10. | 151077110053 | JALLI VARA PRASAD      | J. Varaprasad            |
| 11. | 151077110051 | NEREDUMILLI SIRESHA    | Neredumilli. Siresha     |
| 12. | 151077110056 | VIPPARATHY ANUSHA      | V. Anusha                |
| 13. | 151077110041 | CHOPPALLA SURESH KUMAR | C. Suresh kumar          |
| 14. | 151077110048 | MOLLETI MOHAN DURGA    | M. Mohan Durga           |
| 15. | 151077110034 | AKULA ARUNA KOMARI     | A. Aruna kumar.          |

M. Saithe  
Convener

  
Course Director  
LECTURER IN ZOOLOGY  
GOVERNMENT

Government Degree College, Razole

Department of zoology

Syllabus 2017 – 18

**Certificate course in Aquaculture**

**Unit –I**

**Total Periods:45**

|                                                                 |   |
|-----------------------------------------------------------------|---|
| 1.1 Introduction and Significance of Aquaculture                | 2 |
| 1.2 History of Aquaculture                                      | 1 |
| 1.3 Present status of Aquaculture                               | 2 |
| 1.4 Major Cultivable Species (fresh water, brackish and Marine) | 6 |

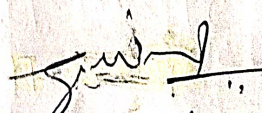
**Unit –II**

|                                            |   |
|--------------------------------------------|---|
| 2.1 Types of Aquaculture                   | 2 |
| 2.2 Principles and Methods of Preservation | 6 |
| 2.3 Fish Products and By-Products          | 4 |
| 2.4 Hatchery Management                    | 3 |
| 2.5 Fish and Shrimp Diseases               | 4 |

**Unit- III**

|                             |   |
|-----------------------------|---|
| 3.1 Prawn Culture           | 3 |
| 3.2 Shrimp Culture          | 3 |
| 3.3 Ornamental Fish Culture | 3 |
| 3.4 Oyester Culture         | 3 |
| 3.5 Sea Weed Culture        | 3 |

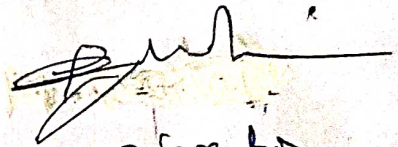
M. Sawley  
Coordinator

  
Course Director  
LECTURER IN ZOOLOGY  
Government Degree College  
RAZOLE

| Date       | Topics                                  |
|------------|-----------------------------------------|
| 16-09-2017 | Introduction of aquaculture             |
| 17-09-2017 | significance of aquaculture             |
| 18-09-2017 | history of aquaculture                  |
| 19-09-2017 | present status of aquaculture in global |
| 21-09-2017 | present status of aquaculture in India  |
| 22-09-2017 | Fresh water cultivable species          |
| 23-09-2017 | Carp Culture                            |
| 24-09-2017 | Major carps                             |
| 25-09-2017 | Mussels                                 |
| 26-09-2017 | Cat fishes                              |
| 28-09-2017 | Brackish water cultivable species       |
| 29-09-2017 | Marine water cultivable species         |
| 30-09-2017 | types of aquaculture                    |
| 01-10-2017 | principles of preservation              |
| 02-10-2017 | principles of preservation              |
| 03-10-2017 | Methods of preservation                 |
| 04-10-2017 | Fish products                           |
| 05-10-2017 | Fish products                           |
| 06-10-2017 | Fish byproducts                         |
| 08-10-2017 | Fish byproducts                         |
| 09-10-2017 | hatchery design                         |
| 10-10-2017 | hatchery Management                     |
| 11-10-2017 | Bacterial diseases                      |
| 12-10-2017 | Viral diseases                          |
| 14-10-2017 | Fungal disease                          |

|            |                          |
|------------|--------------------------|
| 15-10-2017 | Prawn Culture            |
| 16-10-2017 | Shrimp Culture           |
| 17-10-2017 | Ornamental fish Culture  |
| 20-10-2017 | Oyster Culture           |
| 21-10-2017 | Sea weed Culture         |
| 22-10-2017 | Revision                 |
| 24-10-2017 | Revision                 |
| 25-10-2017 | Revision                 |
| 29-10-2017 | Revision                 |
| 30-10-2017 | Assignments              |
| 31-10-2017 | Assignments              |
| 05-11-2017 | Assignment               |
| 08-11-2017 | Assignment               |
| 10-11-2017 | Examination              |
| 15-11-2017 | Certificate presentation |
|            |                          |
|            |                          |
|            |                          |

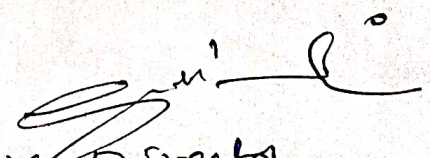
M. Sailaja  
Convener

  
Course Director  
LECTURER IN ZOOLOGY  
Government Degree College  
BAZOLE

[illegible]

|        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| -10-17 | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P |
| -10-17 | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P |
| -10-17 | A | P | A | P | P | P | P | P | P | P | P | P | P | P | P |   |   |
| -10-17 | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P |   |   |
| -10-17 | P | P | A | P | P | P | P | P | P | P | P | P | P | P | P |   |   |
| -10-17 | P | P | P | P | P | P | P | P | P | P | P | P | A | P | P |   |   |
| -10-17 | P | P | P | P | A | P | P | P | P | P | P | P | A | P | P |   |   |
| -10-17 | P | P | A | P | P | P | P | P | P | P | P | P | P | P | P |   |   |
| -10-17 | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P |   |   |
| -10-17 | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P |   |   |
| -11-17 | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P |   |   |
| -11-17 | P | P | P | P | A | P | P | P | P | P | P | P | P | P | P |   |   |
| -11-17 | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P |   |   |
| -11-17 | P | P | P | A | P | P | P | P | P | P | P | P | P | P | P |   |   |
|        | P | P | P | P | A | P | P | P | P | P | P | P | P | P | P |   |   |
|        | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P |   |   |
|        | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P |   |   |
|        | P | A | P | P | P | P | P | P | P | P | P | P | P | P | P |   |   |
|        | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P |   |   |

For Sailey  
Convenor

  
Course Director  
Government Degree College  
BAZOL

GOVERNMENT DEGREE COLLEGE RAZOLE

DEPARTMENT OF ZOOLOGY

CERTIFICATE COURSE ON AQUACULTURE

QUESTION PAPER -2017-2018

Marks :50

Max: time 2 hrs

WRITE ALL THE QUESTIONS

3x10=30M

1. What is the Present status of Aquaculture in National Scenario?
2. Write an essay on Fish By Products ?
3. Shrimp Culture.

WRITE A SHORT NOTES ON

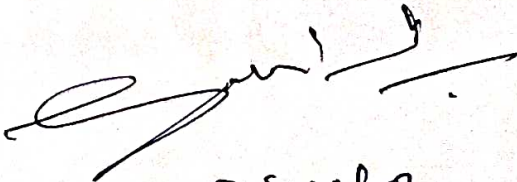
4x5=20M

1. Major Carps.
2. Prawn Culture.
3. Bacterial diseases in Fish.
4. Sea weeds.

Course Convenor

Course Director

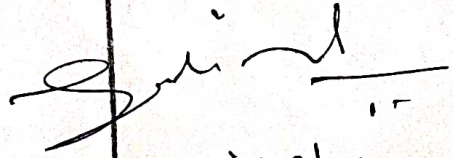
M. Saituf  
Convenor

  
Course Director  
LECTURER IN ZOOLOGY  
Government Degree College  
RAZOLE

17-18

| Student Name             | Max. Marks. | Marks obtained |
|--------------------------|-------------|----------------|
| BONDADA PRIVANKA         | 50          | 40             |
| MORI DEVI                | 50          | 45             |
| PATNALA SAI              | 50          | 46             |
| KONA BHUSWARUPA          | 50          | 45             |
| MUSUDI MARY JYOTHI       | 50          | 46             |
| RAPAKA DURGA BHAVANI     | 50          | 45             |
| BOKKA JAKESH             | 50          | 46             |
| GUTTU VITAYA KUMAR       | 50          | 47             |
| JAGATHADI DURGA RAO      | 50          | 45             |
| NEREDUMILLI SIREESHA     | 50          | 47             |
| VIPPARTHY ANUSHA         | 50          | 48             |
| CHOPPALLA SURESH KUMAR   | 50          | 46             |
| MOLLETI MOHAN DURGA      | 50          | 49             |
| AKULA ARUNA KUMARI       | 50          | 48             |
| PONNAMADA MANI SAI KUMAR | 50          | 45             |

M. Sarvag  
Convener

  
Course Director



## GOVERNMENT DEGREE COLLEGE

RAZOLE, Dr B R AMBEDKAR KONASEEMA (Dist), A.P-533242

NAAC Re-Accredited with 'B' Grade



Affiliated To Adikavi Nannaya University

### **Certificate course on 'Aquaculture'**

#### *Certificate of Participation*

This is to certify that Kum. Y.Sujatha IIIrd CBZ, of Government Degree College Razole has Participated in certificate course on 'Aquaculture' organized by Department of Zoology from 11.11.2017 to 30.12.2017.

HOD Of Zoology

N. Venkateswara Rao

IQAC COORDINATER

PRINCIPAL