

DEPARTMENT OF MARINE LIVING RESOURCES, ANDHRA UNIVERSITY
M.Sc. Marine Biology and Fisheries-I Semester- Scheme of Examination
(With effect from 2011 - 2012 admitted batch)

Paper No.	Paper title	Max. Marks			Credits		
		Theory (End Exam+mid)	Practical (Semester End)	Total Marks	Theory	Practical	Total
1.1	Marine Ecology	85+15	50	150	4	2	6
1.2	Biological Oceanography-I	85+15	50	150	4	2	6
1.3	Biology of Marine Organisms-I	85+15	50	150	4	2	6
1.4	Biostatistics	85+15	50	150	4	2	6
			50 (Viva-Voce)	50		2 (Viva-Voce)	2
	Total Marks	400	250	650	16	10	26

M.Sc. Coastal Aquaculture and Marine Biotechnology- I Semester- Scheme of Examination (With effect from 2011 – 2012 admitted batch)

Paper No.	Paper title	Max. Marks			Credits		
		Theory (End Exam+mid)	Practical (Semester End)	Total Marks	Theory	Practical	Total
1.1	Oceanography and Marine Biology	85+15	50	150	4	2	6
1.2	Fin Fish Culture	85+15	50	150	4	2	6
1.3	Crustacean Farming	85+15	50	150	4	2	6
1.4	Aquaculture Engineering	85+15	50	150	4	2	6
			50 (Viva-Voce)	50		2 (VivaVoce)	2
	Total Marks	400	250	650	16	10	26

M.Sc. Marine Biotechnology- I semester- Scheme of Examination
(With effect from 2011 - 2012 admitted batch)

Paper No.	Paper title	Max. Marks			Credits		
		Theory (End Exam+mid)	Practical (Semester End)	Total Marks	Theory	Practical	Total
1.1	Oceanography and Marine Biology	85+15	50	150	4	2	6
1.2	Biochemistry	85+15	50	150	4	2	6
1.3	Marine Microbiology	85+15	50	150	4	2	6
1.4	Enzymology	85+15	50	150	4	2	6
			50 (Viva-Voce)	50		2 (Viva-Voce)	2
	Total Marks	400	250	650	16	10	26

DEPARTMENT OF MARINE LIVING RESOURCES, ANDHRA UNIVERSITY
M.Sc. Marine Biology and Fisheries-II semester- Scheme of Examination
(With effect from 2011-2012 admitted batch)

Paper No.	Paper title	Max. Marks			Credits		
		Theory (End Exam+mid)	Practical (Semester End)	Total Marks	Theory	Practical	Total
2.1	Estuaries and Coastal Zone Management	85+15	50	150	4	2	6
2.2	Biological Oceanography-II	85+15	50	150	4	2	6
2.3	Biology of Marine Organisms-II	85+15	50	150	4	2	6
2.4	Biochemistry and Physiology	85+15	50	150	4	2	6
			50 (Viva-Voce)	50		2 (Viva-Voce)	2
	Total Marks	400	250	650	16	10	26

M.Sc. Coastal Aquaculture and Marine Biotechnology- II Semester- Scheme of Examination (With effect from 2011-2012 admitted batch)

Paper No.	Paper title	Max. Marks			Credits		
		Theory (End Exam+mid)	Practical (Semester End)	Total Marks	Theory	Practical	Total
2.1	Mariculture	85+15	50	150	4	2	6
2.2	Molluscan and Seaweed Farming	85+15	50	150	4	2	6
2.3	Reproduction and Genetics in Aquaculture	85+15	50	150	4	2	6
2.4	Seed Production and Hatchery Management	85+15	50	150	4	2	6
			50 (Viva-Voce)	50		2 (VivaVoce)	2
	Total Marks	400	250	650	16	10	26

M.Sc. Marine Biotechnology-II semester- Scheme of Examination
(With effect from 2011-2012 admitted batch)

Paper No.	Paper title	Max. Marks			Credits		
		Theory (End Exam+mid)	Practical (Semester End)	Total Marks	Theory	Practical	Total
2.1	Molecular Biology and Genetics	85+15	50	150	4	2	6
2.2	Microbial Technology	85+15	50	150	4	2	6
2.3	Enzyme Technology	85+15	50	150	4	2	6
2.4	Marine Living Resources	85+15	50	150	4	2	6
			50 (Viva-Voce)	50		2 (Viva-Voce)	2
	Total Marks	400	250	650	16	10	26

II Semester - Optional Paper : Marine Bioresources (for the students of other Depts.)

2.5	Marine Bioresources Optional (Non-core Paper)	85+15		100	4		4
	Total Marks	100		100	4		4

DEPARTMENT OF MARINE LIVING RESOURCES, ANDHRA UNIVERSITY
M.Sc. Marine Biology and Fisheries-III semester- Scheme of Examination
(With effect from 2011-2012 admitted batch)

Paper No.	Paper title	Max. Marks			Credits		
		Theory (End Exam+mid)	Practical (Semester End)	Total Marks	Theory	Practical	Total
3.1	Fishery Science	85+15	50	150	4	2	6
3.2	Aquaculture	85+15	50	150	4	2	6
3.3	Biotechnological Applications in Aquaculture	85+15	50	150	4	2	6
3.4	Marine Pollution and Biodeterioration	85+15	50	150	4	2	6
			50 (Viva-Voce)	50		2 (Viva-Voce)	2
	Total Marks	400	250	650	16	10	26

M.Sc. Coastal Aquaculture and Marine Biotechnology- III Semester- Scheme of Examination (With effect from 2011-2012 admitted batch)

Paper No.	Paper title	Max. Marks			Credits		
		Theory (End Exam+mid)	Practical (Semester End)	Total Marks	Theory	Practical	Total
3.1	Marine Microbiology	85+15	50	150	4	2	6
3.2	Principles of Biochemistry	85+15	50	150	4	2	6
3.3	Bioactive Marine Natural Products	85+15	50	150	4	2	6
3.4	Marine Pollution and Biodeterioration	85+15	50	150	4	2	6
			50 (Viva-Voce)	50		2 (VivaVoce)	2
	Total Marks	400	250	650	16	10	26

M.Sc. Marine Biotechnology-III Semester- Scheme of Examination
(With effect from 2011-2012 admitted batch)

Paper No.	Paper title	Max. Marks			Credits		
		Theory (End Exam+mid)	Practical (Semester End)	Total Marks	Theory	Practical	Total
3.1	Aquaculture and Health Management	85+15	50	150	4	2	6
3.2	Cell and Tissue Culture	85+15	50	150	4	2	6
3.3	Bioactive Marine Natural products	85+15	50	150	4	2	6
3.4	Marine Pollution and Biodeterioration	85+15	50	150	4	2	6
			50 (Viva-Voce)	50		2 (Viva-Voce)	2
	Total Marks	400	250	650	16	10	26

III Semester - Optional Paper : Coastal Aquaculture (for the students of other Depts.)

3.5	Coastal Aquaculture Optional (Non-core Paper)	85+15		100	4		4
	Total Marks	100		100	4		4

DEPARTMENT OF MARINE LIVING RESOURCES, ANDHRA UNIVERSITY
M.Sc. Marine Biology and Fisheries-IV semester- Scheme of Examination
(With effect from 2011-2012 admitted batch)

Paper No.	Paper title	Max. Marks			Credits		
		Theory (End Exam+mid)	Practical (Semester End)	Total Marks	Theory	Practical	Total
4.1	Fishing Technology and Fisheries Management	85+15	50	150	4	2	6
4.2	Fish Processing Technology	85+15	50	150	4	2	6
4.3	Management of Aquaculture Systems	85+15	50	150	4	2	6
4.4	Project Work		150	150		6	6
			50 (Viva-Voce)	50		2 (Viva-Voce)	2
	Total Marks	300	350	650	12	14	26

M.Sc. Coastal Aquaculture and Marine Biotechnology- IV Semester- Scheme of Examination (With effect from 2011-2012 admitted batch)

Paper No.	Paper title	Max. Marks			Credits		
		Theory (End Exam+mid)	Practical (Semester End)	Total Marks	Theory	Practical	Total
4.1	Pathology and Immunology	85+15	50	150	4	2	6
4.2	Molecular Biology	85+15	50	150	4	2	6
4.3	Marine Biotechnology	85+15	50	150	4	2	6
4.4	Project Work		150	150		6	6
			50 (Viva-Voce)	50		2 (VivaVoce)	2
	Total Marks	300	350	650	12	14	26

M.Sc. Marine Biotechnology-IV semester- Scheme of Examination
(With effect from 2011-2012 admitted batch)

Paper No.	Paper title	Max. Marks			Credits		
		Theory (End Exam+mid)	Practical (Semester End)	Total Marks	Theory	Practical	Total
4.1	Genetic Engineering	85+15	50	150	4	2	6
4.2	Immunology	85+15	50	150	4	2	6
4.3	Applications of Biotechnology	85+15	50	150	4	2	6
4.4	Project Work		150	150		6	6
			50 (Viva-Voce)	50		2 (Viva-Voce)	2
	Total Marks	300	350	650	12	14	26