

VEER NARMAD SOUTH GUJARAT UNIVERSITY, SURAT
S.Y. B.Sc. SEM – III
MARINE SCIENCE (E. G.)
(Revised Syllabus Effective from JUNE - 2022)

UNIT – 1 Scope of marine science:

- Introduction to marine science and career
- Classification :
 - Prokaryotes
 - Eukaryotes - Fungi, Protista, Plant, Animalia–Five Kingdoms

UNIT – 2 Geology of the ocean:

- Physico-chemical properties of Marine Environment
- Zonations of ocean

UNIT - 3 Marine Biology:

- Adaptations:
 - Bony fish surviving in near freezing water (or adaptations in deep sea fishes)
 - Sea birds
 - Whales and their relations
- General characters of bony and cartilaginous fishes.

UNIT - 4 Marine organisms:

- Microorganisms:
 - Phytoplanktons
 - Zooplanktons
 - Red algae
 - Brown algae
 - Green algae
 - Multicellular algae
- Economic importance of algae

- Macro organisms:
 - ❖ Invertebrates-Economic importance
 - Marine sponges
 - Molluscs
 - Arthropods (crab and prawns).
 - ❖ Vertebrate: Economic importance
 - Scoliodon (sharks)
 - Marine mammals (whales and dolphins)
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