

M.Sc. SEMESTER -IV**Marine Biology****Paper no - 14****Subject Code: 21692****: નોંધ :**

૧. દરેક પ્રશ્નનો [a] અથવા [a(i)] અને [a(ii)] ૪ લખવાના રહેશે.
 ૨. પ્રશ્ન : ૧[a] અથવા ૧[a(i)] અને ૧[a(ii)] તથા ૨[a] અથવા ૨[a(i)] અને ૨[a(ii)] ના 14 માર્ક્સ ના બદલે ૧૮ માર્ક્સ રહેશે.
 ૩. પ્રશ્ન : ૩[a] અથવા ૩[a(i)] અને ૩[a(ii)] તથા ૪[a] અથવા ૪[a(i)] અને ૪[a(ii)] ના 14 માર્ક્સ ના બદલે ૧૭ માર્ક્સ રહેશે.
 ૪. દરેક પ્રશ્નનો પ્રશ્ન નં ૧(b), પ્રશ્ન નં ૨(b), પ્રશ્ન નં ૩(b) તથા પ્રશ્ન નં ૪(b) (ટુંકા પ્રશ્નો) વિદ્યાર્થીએ લખવાના નથી.

Figure on right shows marks of the questions.

Q.1A Write an essay on Formation of Coast line.**14**

OR

Write notes on: (a) CRZ III and IV and (b) Laws of ICZM

Q.1B Answer any four out of following:**04**

- Give Simple Definition of Coast.
- Name any Human activities affecting Coast?
- Give any example of Coastal ecosystem.
- Give any two examples of marine living resources.
- Give any two examples of marine minerals.
- Name any types of Monitoring methods for Estuarine ecosystem.

Q.2A Explain in detail: Washing Methods of Salt**14**

OR

Write notes on: (a) General layout of Salt pan and
 (b) Purification of salt by re-crystallization method.

Q.2B Answer any four out of following:**04**

- What is Zeolite?
- Which state of India produce Kuppam variety of salt?
- What is the salinity of crystallizers in a salt pan?
- What is the ratio of iodine in iodized salt?
- Define vacuum distillation.
- Who invented freeze thaw method?

Q.3A Write an essay on Image Processing and Oceanography. **14**

OR

Write notes on: (a) SAR imaging of Ocean waves and
(b) GIS application in marine ecosystem.

Q3B Answer any three out of following: **03**

- i. Which color for water will reflect in satellite image?
- ii. Name any Potential Uses of SST data.
- iii. Give a full form of SST.
- iv. Give a full form of IRS.
- v. Write the principle of killer satellite.

Q.4A Write an essay on: Application of Color Sensors of Landsat satellite. **14**

OR

Write short note on: (a) Mapping of shelf areas of sea and
(b) MODIS instrument on NASA's aqua satellite.

Q.4B Answer any three out of following: **03**

- i. Give a full form of NOAA.
 - ii. Give a full form of NASA.
 - iii. What is INCOIS.
 - iv. Name any two marine resources which could be identified by remote sensing.
 - v. What is the use of Eco-GIS tool?
-