

૧. દરેક પ્રશ્નનો [a] અથવા [a(i)] અને [a(ii)] ૧ 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.

Instructions: (1) All Questions carries equal marks.
 (2) Draw labeled diagram where necessary.

- Q:1 (A)** Describe in detail: Tide as a dynamic factor in marine environment. 14
OR
 Write on (i) Sea a biological environment. 07
 (ii) Continental drift. 07
- (B) Write answer in short (Any four)** 04
- (a) Give difference between Sea and Ocean. (d) What is Submarine zone?
 (b) Define: Repulsion waves. (e) What is oceanic current?
 (c) What is Oceanography? (f) Write the area of Southern ocean.
- Q:2 (A)** Explain in detail: Radioactive waste and agricultural waste as a major marine pollution. 14
OR
 Write on (i) In-situ Bioremediation. 07
 (ii) pH of the sea water. 07
- (B) Write answer in short (Any four)** 04
- (a) Differentiate Bioremediation from Biodegradation. (d) What is PAH in oil pollution?
 (b) Write effect of Dredging on marine animals. (e) Define: Salinity.
 (c) Cadmium pollution causes _____ disease. (f) Define: BOD.
- Q:3 (A)** Describe on: Zooplankton diversity of the ocean. 14
OR
 Write note on (i) Rocky habitat. 07
 (ii) Animal community of marine environment. 07
- (B) Write answer in short (Any three)** 03
- (a) Name any two marine foulers. (d) What is Macro fauna?
 (b) What is trophic level in food pyramid? (e) Define: Marine food chain.
 (c) What is community ecology?
- Q:4 (A)** Describe in detail: Marine Endangered fauna. 14
OR
 Write on (i) EEZ. 07
 (ii) Mariculture. 07
- (B) Write answer in short (Any three)** 03
- (a) Write Scientific name of Silver Pomfret. (d) Define: Rearing in fisheries.
 (b) From which fish Isinglass is made? (e) What is fish meal?
 (c) Name any one fish Industry of Gujarat.