



Seat No. \_\_\_\_\_

**HB-003-1184003**

**M. Sc. (Sem. IV) (CBCS) (W.E.F. 2016) Examination**

**April - 2023**

**Zoology : ZOOL-421**

**(Marine Biology) (Elective)**

**Faculty Code : 003**

**Subject Code : 1184003**

Time :  $2\frac{1}{2}$  Hours / Total Marks : 70

**Instruction** : Answer any Five from the following.

**1** Answer the following very briefly (Any Seven) : **2×7=14**

- (a) What are surface waves ?
- (b) What is salt marsh ?
- (c) What is Ekman transport ?
- (d) Define Red tides.
- (e) What is Fjord type estuary ?
- (f) What are the plastic wastes ?
- (g) Define oil spill.
- (h) Define estuaries.
- (i) Define planktons, nekton and benthos.
- (j) What is physical oceanography ?

**2** Answer the following (any Two) : **7×2=14**

- (a) Briefly describe the oceanic circulation.
- (b) Briefly describe Tides.
- (c) Briefly describe the eutrophication.

**3** Answer the following : **7×2=14**

- (a) Write a detailed note on distribution of plankton.
- (b) Write a detailed account on marine food chains.

**OR**

- (a) Describe the mass mortality in the sea.
- (b) Write detailed note on Marine Bacteria.

**4** Answer the following : **7×2=14**

- (a) Write a detailed note on Estuarine Birds.
- (b) Write a detailed note on CZM.

**5** Answer the following (Any Two) : **7×2=14**

- (a) Write a detailed note on thermal pollution at sea.
  - (b) Write detailed note on famous beaches of India.
  - (c) Describe the Oil pollution in sea.
  - (d) Write a detailed note on various causes affected to eco-tourism.
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