

Parvatibai Chowgule College of Arts and Science

Autonomous

B.Sc. Semester End Examination, January/February 2022

Semester: III

Subject: Geology

Course Title: Marine Geology (Elective)

Duration: 2 hours

Max. Marks: 45

Instructions:

- i. All questions are compulsory.
 - ii. Figures to the right indicate maximum marks allotted.
 - iii. Answers to the main question must begin on a fresh page.
 - iv. Answers must be relevant to the questions.
 - v. Draw diagrams wherever necessary
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Q. 1. Answer ANY THREE the following questions: (09)

- a) Define salinity.
- b) What is a convergent plate boundary?
- c) How are turbidity currents formed?
- d) Why is most lithogenous sediment composed of quartz grains?

Q. 2. Answer ANY TWO the following questions: (12)

- e) Write a note on thermohaline circulation.
- f) Compare passive and active continental margins.
- g) Write a note on manganese nodules.

Q. 3. Answer ANY TWO the following questions: (12)

- h) Give an account of the various processes affecting seawater salinity.
- i) Describe the morphological features of the continental slope.
- j) With the help of an illustration explain how calcareous ooze can exist below the CCD?

P.T.O

Q. 4. Answer ANY ONE of the following:

A)

- i. Rivers are continuously adding dissolved matter to the ocean however are the oceans becoming saltier with time? If no, Justify. (6)
- ii. Discuss the causes for changes in sea level in the earth's past. (6)

OR

B)

- iii. What is the significance of the Exclusive Economic Zone for India? (6)
- iv. Discuss the alternatives to hard stabilization measures adopted along the coast. (6)
