

40. Consider the following statements with respect to submergent coasts:

- (1) Ria coasts are formed due to submergence of river valleys, but Fiord coasts are formed due to submergence of glaciated valleys.
- (2) In Ria coast, the depth increases seawards but in Fiord coasts the depth decreases seawards.

Which of the statements given above is/are correct?

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

41. Consider the following statements with reference to gyre circulation:

- (1) In tropical areas, the general direction is counter-clockwise in the southern hemisphere.
- (2) In tropical areas, western boundary current is more potent than the eastern boundary current.
- (3) Continents and other landmasses also influence the creation of ocean gyres.
- (4) These are consistent throughout the year.

Which of the statements given above are correct?

- (a) 1, 2 and 3 only
- (b) 1, 3 and 4 only
- (c) 2, 3 and 4 only
- (d) 1, 2, 3 and 4

42. Which of the following are ideal conditions for the growth of coral reefs?

- (1) Temperature range between 25-30-degree Celsius.
- (2) Depth of water should not exceed 60 m.
- (3) Wastewater discharged into the ocean near the reef.
- (4) Water disturbed by currents and waves is beneficial.

Select the correct answer using the code given below:

- (a) 2 and 3 only
- (b) 1, 3 and 4 only
- (c) 2, 3 and 4 only
- (d) 1, 2 and 4 only

43. Consider the following statements regarding salinity of the ocean waters:

- (1) Salinity near the equator is low due to heavy rainfall and little evaporation.
- (2) Salinity near the Tropic of Cancer is high due to huge evaporation and steady trade winds.
- (3) Within the tropics, the salinity of the open oceans is more significant than that of the closed areas.
- (4) Salinity in the polar region is very low due to little evaporation and melting of ice.

Which of the statements given above are correct?

- (a) 1, 2 and 3 only
- (b) 1, 2 and 4 only
- (c) 2, 3 and 4 only
- (d) 1 and 4 only