

College Board FRQ 8a**Question 1**

Excess nutrients can affect both freshwater and saltwater ecosystems.

(a) Hypoxic dead zones often result in regions that have experienced extreme eutrophication.

(a)(i). Identify one environmental impact of dead zones.

(a)(ii). Describe how thermal pollution from power plant discharge would affect the frequency of dead zones.

(a)(iii). In addition to excess nutrients and thermal pollution, identify one other nonpoint source pollutant of aquatic environments.

(a)(iv). Propose a solution to reduce the amount of nonpoint source pollutants in aquatic environments.

(b) The data in the table below are the results of a study to determine the recovery of a large dead zone in a lake in Colorado after the Clean Water Act was enacted. Data were collected daily over the months of June, July, and August in the years listed. Average values for the three months in the years where water quality assessment was performed are given in the table.

Water Quality Assessment for Colorado Lake

Year	Temp. (°C)	Dissolved oxygen (DO) (mg/L)	Alkalinity CaCO ₃ (mg/L)	pH	Tot. phosphorus (mg/L)	Turbidity (depth in m)
1965	20.1	3.3	274	8.1	3.35	N/A
1975	17.3	8.6	181	8.8	1.14	1.2
2008	16.9	9.4	155	8.8	0.652	1.7
2014	17.8	8.6	124	8.4	0.282	2.0

(b)(i). Calculate the percent change in average daily temperature in June, July, and August between 1965 and 1975.

(b)(ii). Calculate the average change of dissolved oxygen per year in the lake over the course of the study. Show your work.

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