

8	8a Elaborate the key environmental concerns associated with the petroleum industry.	5 Marks	L2	C01
	8b Define Bioassay and mention its four limitations.	5 Marks	L2	C01
Or				
9	Investigate how scientists use satellite data to monitor changes in global temperatures and outline the key indicators of climate change observed through these technologies.	10 Marks	L2	C01
	10a Points out two basic differences between Fault tree analysis and event tree analysis.	2 Marks	L2	C02
10	10b Use an appropriate example to illustrate the cause consequence analysis (CCA).	3 Marks	L2	C02
	10c Explain the fault tree analysis in details with proper examples along with the tree.	5 Marks	L2	C02
Or				
11	Discuss in detail the different types of hazards.	10 Marks	L2	C02
12	There are various acts and regulations which govern the environmental policies. Explain the following in details: (a) Oil mines regulations. (b) The air act. (c) The water act.	10 Marks	L2	C02
Or				
13	A chemical plant stores and uses various hazardous chemicals, including chlorine gas and benzene. The safety management team uses the Chemical Exposure Index (CEI) to prioritize risk reduction strategies. (a) Discuss how the CEI can be applied in evaluating the risk of chlorine and benzene releases, considering their different chemical properties (toxicity, reactivity, volatility). (b) Identify and explain the limitations of using the CEI in risk assessments. In what situations might the CEI fail to provide an accurate picture of chemical exposure risks?	5+5 Marks	L2	C02