

Question 7

(a) At a constant temperature, a gas at a pressure of 750 mm of mercury occupies a volume of 100 cm^3 . If the volume is decreased by 40%, then find the new pressure.

[3]

(b) 2.5 dm^3 of dry nitrogen gas is collected at a temperature of 27°C and a pressure of 740 mm of mercury. Find the volume of the gas at STP.

[2]

(c) Which chemicals are responsible for the depletion of the ozone layer? Explain in detail.

[5]