Question 26 (4 marks)

A gas is produced when 10.0 g of zinc is placed in 0.50 L of 0.20 mol L^{-1} nitric acid.

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Calculate the volume of gas produced at 25° C and 100 kPa. Include a balanced chemical equation in your answer.

3, 22 ~ (1) + 2H NO3, -> 2Z ~ NO3, + H2 (1) ιÓ # 0.152 mlL 65 M Since JZn 0.15 06 0.306 = 0.0123vola 247 0.50x0.20 0.012-3× 0.0036 076 24.79. and