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**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<sup>-1</sup> 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.

Zn + nitric Acid → gas (unknown) + Zn<sup>2+</sup>

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