Universiti Malaysia PAHANG
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BSK1133 PHYSICAL CHEMISTRY

PRACTICE 3

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1 A air bubles rises from the bottom of a pond at 10.5 °C and 4.8 atm, to the water's surface, where the temperature is 26 °C and the pressure is 1.0 atm.
Calculate the final volume (in mL) of the bubble if its initial volume was 3.3 mL.

2. An air balloon of 450 mL at 1.0 atm, is rising to a height of 9.7 km, where the pressure is about 0.31 atm.
Calculate the final volume of the air balloon.
(Assuming that the temperature remains constant)

ANSWERS:

1. 16.71 mL

2. 1451.61 mL

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