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| **Question 1:**  The volumes of two hemispheres are in the ratio 8:27. What is the ratio of their radii? |
| **Option A:**  2:3 |
| **Option B:**  3:2 |
| **Option C:**  1:2 |
| **Option D:**  2:1 |
| **Correct Option:**  **A** |
| **Solution**  Let the volume be V1 and V2. |
| **Level**  **2** |
| **Length**  **VSQ** |
| **Marks**  **1** |

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| **Question 2:**  A sphere has the same volume as a cylinder whose height is 3 times the radius of its cross section. Then, the ratio of their radii is- |
| **Option A:** |
| **Option B:** |
| **Option C:** |
| **Option D:** |
| **Correct Option:**  **B** |
| **Solution**  We know that, volume of sphere = volume of cylinder |
| **Level**  **2** |
| **Length**  **VSQ** |
| **Marks**  **1** |

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| **Question 3:**  A vessel is 5 cm long and its base is triangular having sides 2 cm, 3 cm and 4 cm, the curved surface area of vessel is- |
| **Option A:**  40 cm2 |
| **Option B:**  45 cm2 |
| **Option C:**  46 cm2 |
| **Option D:**  48 cm2 |
| **Correct Option:**  **B** |
| **Solution** |
| **Level**  **2** |
| **Length**  **VSQ** |
| **Marks**  **1** |