31. The molecular weight of Sodium Chloride BP is 58.44. How many grams of Sodium Chloride BP would be required to produce 100 ml of a 2 mmol/ml solution?

a. 2.92 g
b. 5.84 g
c. 11.69 g
d. 29.20 g
e. 58.40 g

32. The molecular weight of Sodium Bicarbonate BP is 84. How many grams of Sodium Bicarbonate BP would be required to produce 75 ml of 1 mmol/ml solution?

a. 0.63 g
b. 4.2 g
c. 6.3 g
d. 8.4 g
e. 12.6 g

Formulation questions

This section contains details of extemporaneous products to be made in the same way as the examples earlier in this chapter. For each example, provide answers using the following sections:

1. **Use of the product**
2. **Is it safe and suitable for the intended purpose?**
3. **Calculation of formula for preparation**
4. **Method of preparation**

a. Solubility where applicable
b. Vehicle/diluent
c. Preservative
d. Flavouring when appropriate

5. **Choice of container**
6. **Labelling considerations**

a. Title
b. Quantitative particulars
c. Product-specific cautions (or additional labelling requirements)
d. Directions to patient – interpretation of Latin abbreviations where necessary
e. Recommended *British National Formulary* cautions when suitable
f. Discard date
g. Sample label (you can assume that the name and address of the pharmacy and the words ‘Keep out of the reach of children’ are pre-printed on the label)

7. **Advice to patient**