## Questions

**23.** **How many millilitres of potable water are required to dissolve 3 g of a solid which is soluble in 2.5 parts of water?**
a. 2.5 ml
b. 3 ml
c. 5 ml
d. 7.5 ml
e. 8 ml

**24.** **How many millilitres of potable water are required to dissolve 7 g of a solid, which is soluble 1 in 1.5 parts of water?**
a. 1.5 ml
b. 15 ml
c. 7.5 ml
d. 10.5 ml
e. 75 ml

**25.** **Sodium Bicarbonate BP is soluble 1 in 11. How much Double Strength Chloroform Water BP is needed to dissolve 0.37 kg?**
a. 3.7 l
b. 4.07 l
c. 4090 ml
d. 4.1 l
e. 4700 ml

**26.** **How much of a 1 in 150 w/v solution would be required to produce 200 ml of a 0.2% solution?**
a. 3 ml
b. 15 ml
c. 25 ml
d. 30 ml
e. 60 ml

**27.** **Express 500 micrograms in 2 ml as '1 in x'.**
a. 1 in 250
b. 1 in 400
c. 1 in 2000
d. 1 in 2500
e. 1 in 4000

**28.** **How much Crystal Violet BP is required to prepare 5.4 litres of a 1 in 12 000 solution?**
a. 450 micrograms
b. 540 micrograms
c. 4.5 milligrams
d. 450 milligrams
e. 540 milligrams