

9. Quantitative particulars are expressed per dose for internal products. Therefore, in this case, quantitative particulars would be expressed per 15 ml. **Answer:** c (Amount per 15 ml)
10. The patient needs to take 1 g of paracetamol per dose. The stock suspension contains 120 mg per 5 ml. Therefore, each dose requires $(1000 \div 120) \times 5 = 41.67$ ml. For ease of administration, the patient would be advised to take 41.7 ml per dose.
- The patient is required to take each dose four times a day and a 2-week supply has been requested. Therefore, you need to dispense $41.7 \times 4 \times 14 = 2335.2$ ml.
- Answer:** e (2.4 litres)
11. 200 mg of Tragacanth BP is used per 100 ml of indiffusible suspension. Therefore, 400 mg of Tragacanth BP would be required $(200 \text{ mg} \times 2)$. **Answer:** c (400 mg)
12. Calamine BP would be included at a concentration of 15%, i.e. 15 g per 100 ml of suspension.

Zinc Oxide BP would be included at a concentration of 5%, i.e. 5 g per 100 ml of suspension.

Bentonite BP is chosen as the suspending agent as the suspension is for external use (a lotion). Bentonite BP would be used in a concentration of 2–3%.

Freshly boiled and cooled purified water would be chosen as the vehicle as the suspension does not contain a preservative.

Therefore, the formula would be:

Calamine BP	15 g
Zinc Oxide BP	5 g
Bentonite BP	2 g or 3 g
Freshly boiled and cooled purified water	to 100 ml

13. Compound Tragacanth Powder BP is used as 2 g per 100 ml of final suspension. Therefore you will require $(150 \div 100) \times 2 = 3$ g. **Answer:** d (3 g)
14. **Answer:** c (All suspensions need a direction to shake the bottle.)
15. **Answer:** b (The amount of suspending agent used depends on the amount of powder to be suspended.)
16. Magnesium Carbonate Mixture BPC
- Used as an antacid (*British National Formulary* 51st edn, p 39).
 - This is an official preparation, therefore the formula is safe and suitable for purpose. The dose of 10 ml three times a day is consistent with the recommended dosage (*British Pharmaceutical Codex* 1973, p 746).
 - Prepare 150 ml of Magnesium Carbonate Mixture BPC.

Product formula

(from the *British Pharmaceutical Codex* 1973, p 746)

	Master	100 ml	50 ml	150 ml
Light Magnesium Carbonate BP	50 g	5 g	2.5 g	7.5 g
Sodium Bicarbonate BP	80 g	8 g	4 g	12 g
Concentrated Peppermint Emulsion BP	25 ml	2.5 ml	1.25 ml	3.75 ml
Double Strength Chloroform Water BP	500 ml	50 ml	25 ml	75 ml
Water	to 1000 ml	to 100 ml	to 50 ml	to 150 ml