

- 1.(a) i) Explain the development of Pharmaceutical Education in India. (8)
 ii) Calculate the dose for 10 year child and 9 months old infant of SMZ (adult dose = 650 mg). (3)
 iii) How do you prepare 250 ml of 35% v/v alcohol from 40% v/v and 15% v/v alcohol? (3)

OR

- (b) i) What is pharmacopocia? Write the contents and uses of I.P. (8)
 ii) How do you prepare 1500 ml of 3% w/v sodium chloride solution? (2)
 iii) Inter convert 35° UP and 42° OP into % v/v and 36% v/v and 87% v/v into degrees of proof. (4)
- 2.(a) i) Define prescription. Explain the contents of prescription with example. (7)
 ii) Discuss about different types of containers and closures used in liquid dosage forms. (7)

OR

- (b) i) Explain the steps involved in dispensing of a prescription. (8)
 ii) Write a note on reasons for errors in dispensing of a prescription. (6)
- 3.(a) i) What are different methods of preparation of aromatic waters. (7)
 ii) Write the principle and procedure involved in the preparation of simple syrup. (7)

OR

- (b) i) Classify emulsifying agents with examples. (6)
 ii) How do you prepare Tannic acid glycerin and calamine lotion? (4x2)

- 4.(a) i) Discuss about any two ointment bases with its merits and demerits. (8)
 ii) Write a note on tablet triturates. (3)
 iii) Calculate the formula for preparation of 10 zinc oxide suppositories each containing 500 mg of ZnO using 1 gm molds. (Displacement value of ZnO = 5). (3)

OR

- (b) i) Explain about physical incompatibilities with examples. (8)
 ii) Mention the type of incompatibility and write the method to overcome in the following : (6)

Rx

Quinine So ₄	-	2 gm
Hydrochloric acid	-	5 ml
KI	-	1 gm
Water upto	-	50 ml

- 5.(a) i) Describe the soxhalation process of extraction with a neat sketch. (8)
 ii) Discuss the method of preparation of radio pharmaceuticals. (6)

OR

- (b) i) List out official medical gases along with its storage and uses. (7)
 ii) Write a note on tinctures. (7)
