

29/4/13 29th April 2013
 Sem IV (Rev.) (Reg) - D.P. (2 Hours)

[Total Marks : 40]

N.B. : (1) Question No. 1 is compulsory.

- (2) Attempt any **three** from the remaining **four** questions.
 (3) Figures to the **right** indicate **full** marks.

1. Answer in brief :— 10
- Bentonite should be sterilized before use in preparations for application to broken skin.
 - Define the terms 'freshly prepared' and 'recently prepared'.
 - What is the percentage of Zinc Oxide in an ointment prepared by mixing 250 g of 8% ointment, 150 g of 15% ointment and 50 g of 5% ointment each containing zinc oxide ?
 - Enlist the various ways by which rate of filtration can be enhanced ?
 - What is the binder used in preparation of tablet triturates ? Why ?
2. (a) Comment on the following prescription :— 3
- R_x
 Eucalyptus oil 10 ml
 Menthol 3 g
 Water, to 100 ml
 Make an inhalation, Send 50 ml.
- (b) Discuss in brief the formulation and method of preparation of lozenges and pastilles. 3
- (c) Give English translations. 2
- In Phiala
 - Ut antea
 - Infricandus
 - Oculentum.
- (d) Give Conversions : 2
- 10 scruples = _____ grains
 - 8 gallons = _____ fluid ounces
 - 200 ml = _____ minims
 - 8 lbs = _____ drachms.
3. (a) Calculate the percentage of sodium chloride necessary to render an injection containing 2 percent of methoxamine hydrochloride iso-osmotic with blood plasma. (Mol.wt.of methoxamine hydrochloride = 247.7, Mol.wt. of sodium chloride = 58.5 one molecule of methoxamine hydrochloride yields 2 ions) 4
- (b) State the ideal properties of a suppository base. Discuss Macrogol as a suppository base. 3
- (c) Discuss the mixing techniques frequently used in making ointments. Write a note on ointments containing iodine. 3
4. (a) Write a note on Bulk Powders for external use. 3
- (b) Write a note on Preservation of Emulsions. 3
- (c) Differentiate between Pastes and Gels. 2
- (d) Enlist the parts of a Prescription and explain superscription. 2
5. (a) Write short notes on : (any two) 6
- Pills
 - Dispensing of Proprieties
 - Solutions instilled into body cavities.
- (b) Explain 'Physical Incompatibility' with suitable examples. 2
- (c) Give the container / closure system and labelling directions for : 2
- Effervescent granules
 - Nasal drops.
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