

[Time: Three Hours]

[Marks:70]

Please check whether you have got the right question paper.

- N.B: 1. All the questions are compulsory.
2. Figure to right indicate full marks.

Q.1 a Convert the following:

- i) 2 pound =mg
- ii) 100 minims =ml
- iii) 5 litres =pints
- iv) 50 grains =mg

2

- b Enlist the salient points to be considered as good pharmaceutical practices in compounding and dispensing laboratory. 2
- c Calculate the dose of an antiepileptic drug for a 10 years old girl. The adult dose of the same drug is 400 mg 1
- d Write a brief note on collodions. 2
- e Discuss in brief about dispersion of oil in inhalation 2
- f Explain any two tests used to differentiate between o/w and w/o emulsion 2
- g Enlist the ingredients used in compounding of kaolin poultice BPC stating the role of each ingredient. 2
- h Enlist the advantages of capsules as a dosage form 2

Q.2 a How would you prepare 250 g of 20% w/w calamine ointment from ointments containing 7%, 12% and 26% w/w calamine 3

b Comment on the following prescription 4

Rx

Sodium sulphate 30% w/w

Effervescent base qs

Dosa: 1 tsp to be added to a tumblerful of water and consumed before breakfast

OR

Classify powders. Describe the salient features of compounding and dispensing of tablet triturates.

c Enlist the various types of ointment bases. Write a note on **any ONE** type of base 4

Q.3 a Classify creams. Write a note on preservation of creams 3

b Enlist the advantages of solution as a dosage form. Comment on the following prescription 4

Rx

100ml of Zinc chloride and zinc sulphate mouthwash BPC

Zinc chloride 1% w/v

Zinc sulphate 2% w/v

Label: To be diluted with 20 times its volume of warm water before use

OR

Give an account of solutions instilled into body cavities

c Summarize the compounding and dispensing of pills 4

- Q.4 a Explain the "Dry Gum" method used for compounding of emulsions. 3
b Enlist the properties of good suspension. Write a note on thickening agents used in the compounding of suspension. 4
OR
Write a note on compounding and dispensing of suspensions containing indiffusible solids
c Write a detailed note on prescription and its parts. 4
- Q.5 a Find the amount of NaCl to be included in 100 ml of a 0.3% w/v solution of Zinc sulphate so that, on dilution with an equal quantity of water, it will be iso-osmotic with tissue fluids. 3
Given
Freezing point of 1% w/v solution of zinc sulphate is -0.076°C
Freezing point of 1% w/v solution of sodium chloride is -0.576°C
b Give a detailed account of disadvantages of cocoa butter as a suppository base 4
OR
Discuss polyethylene glycol as suppository base
c What in incompatibility. Discuss physical incompatibility 4
- Q.6 a Give the labeling instructions for any 2 of the following dosage forma: 2
1. Ear drops
2. Liniments
3. Mouthwashes
b Give the English translation of the following Latin terms or abbreviations: 2
1. Guttae
2. Si opus sit
3. Lente
4. b.i.d
c How would you dispense proprietary medicines? 3
d In what proportions would you mix tween 80 (HLB 15) and span 80 (HLB 4.5) to obtain 50 g of an emulgent having a HLB of 10 2
e Enlist the steps involved in compounding of suppositories made with cocoa butter base 2