

B.Pharm / Sem-II (BSGS) 25/4/16

Ph'Ceutic's-I

QP Code : 24987

( 3 Hours)

[ Total Marks :70

- N.B. : (1) All questions are compulsory.  
(2) Figures to the right indicate full marks.  
(3) Draw neat labelled diagrams wherever applicable.

1. (a) Define drug and dosage form. 2  
(b) Describe concept of absorption along with mechanisms of absorption. 2  
(c) How much quantity of alcohol is required to prepare 300ml of 25% v/v alcohol. 1  
(d) Explain the term 'Rheology'. 1  
(e) Give reasons for following (any two) 4  
    1. Glycerite is used in throatpains.  
    2. Magnesium citrate solution needs to be carbonated.  
    3. Syrup are stored at room temperature away from light.  
(f) Give a brief account of ORS preparation. 2  
(g) Give in brief pharmaceutical applications of complexation. 2  
(h) Enlist the factors affecting dissolution. 1
2. (a) Give advantages and limitations of oral route of administration. 3  
(b) Discuss general features of alternative systems of medicine. 2  
(c) Discuss the importance of particle size determination in preformulation studies 2
- OR
- (c) Give a note on drug-excipient interaction.  
(d) What is primary packaging? Discuss glass as a packaging material for packaging of liquid oral formulation. 3  
(e) Explain any one method of analysis of complexes. 1
3. (a) Explain GMP with respect to materials and equipments. 2  
(b) Write a note on thixotropy. 2  
(c) Give a brief account of impellers used in liquid mixing. 2  
(d) List different methods of particle size measurement and explain any one method in detail. 4  
(e) Define diffusion and enlist various methods for measurement. 1
4. (a) Classify liquid dosage form based on routes of administration. Give application of Cresol with soap solution. 3  
(b) Emulsifying ointment contains emulsifying wax 300 parts. soft paraffin 500 gm and liquid paraffin 200 parts. Calculate quantities required to prepare 350 gm formulation. 2

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XZ-Con. : 1806-16.

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- (c) Name the following. (any two) 2
1. Filter aid used in aromatic water
  2. Preservative used in liquid oral dosage forms
  3. Sweetener used in Artificial syrup
- (d) Explain principle of size separation by sieving. 2
- (e) State and explain Hixon - Crowell law. 2
5. (a) Write a note of development of pharmacy profession in India. 2
- (b) Explain capillary viscometers used for measurement of flow of fluids. 2
- (c) Explain terms- filtration & clarification. What are the factors affecting filtration rate. 3
- (d) List different methods of size reduction. Explain principle and construction of Ball mill OR fluid energy mill. 4
6. (a) Write a note on development of I.P. 3
- (b) Define Bioavailability and dose response. 2
- (c) Explain different packaging materials used for packaging of monophasic liquid products. 4
- OR**
- (c) Discuss various quality control tests for monophasic dosage forms.
- (d) Explain in brief quality control tests for powders. 2