

B-pharma - Sem-IV - CBGS  
Ph. ceutics - II

Q.P. No.: 527701

(3 Hours)

[ Total Marks : 70

N.B.:

- (1) All questions are compulsory.
- (2) Draw neat labeled diagrams wherever necessary.
- (3) Figures to right indicate full marks.

1. (a) With the help of Gibb's free energy equation explain stability of disperse system. 3  
(b) Comment on functions of skin. 2  
(c) Explain physiological factors affecting rectal drug absorption. 3  
(d) Mention various precautions that should be taken to reduce hazards encountered during use of blood products. 2  
(e) What is the significance of test for sterility of ligatures. 3  
(f) Discuss the pharmaceutical applications of suspension. 2
2. (a) Rheological studies are essential for development of good suspension. Explain. 4

OR

What is the significance of addition of:

- (i) Soft soap in Turpentine Liniment IP 66
  - (ii) Ammonium Chloride in White Liniment BPC 73
- (b) Define and state importance of following specifications for suppository bases. 4  
(i) Solidification point  
(ii) Hydroxyl value  
(iii) Water number  
(iv) Solid fat index
  - (c) Write short note on polymeric sutures. 3
3. (a) What is contact angle ? How is this parameter used to understand wetting behavior of insoluble powders. 4  
(b) Write a note on Platelet concentrate. OR Albumin preparations. 4  
(c) Outline the Melting Range Test for suppository. 3
  4. (a) What are gels and jellies? Discuss pharmaceutical gels. 4  
(b) Classify emulsifying agents. Explain any one class in detail. 4  
(c) What are the desired features of plasma substitutes. 3

OR

Write a note on Hydrolysed gelatin based products.

TURN OVER

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5. (a) Elaborate on formulation additives for oral suspension 4  
(b) With suitable layout explain the large scale manufacture of semisolids 3  
(c) Give reasons: 4  
(i) suppositories made from PEG bases must be moistened before insertion  
(ii) Alpha-tocopherol is incorporated in suppository containing fatty base

OR

Outline the large scale manufacturing of suppositories

6. (a) Explain the hardening step in the manufacture of sutures 3  
(b) Discuss the factors affecting stability of an emulsion 4  
OR  
Explain creaming, cracking and phase inversion in emulsion  
(c) Discuss various factors affecting skin penetration 4

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