Roll No. | | | | | | | | | | | | | Total No. of Pages : 02

Total No. of Questions : 10

B.Pharmacy (Sem.–7)

PHARMACEUTICS-VIII (PHARMACEUTICAL TECHNOLOGY-II)

Subject Code : PHM-472

Paper ID : [D0133]

Time : 3 Hrs. Max. Marks : 80

INSTRUCTIONS TO CANDIDATES :

1. **SECTION-A is COMPULSORY consisting of FIFTEEN questions carrying TWO marks each.**
2. **SECTION-B contains FIVE questions carrying FIVE marks each and students have to attempt any FOUR questions.**
3. **SECTION-C contains FOUR questions carrying TEN marks each and students have to attempt any THREE questions.**

SECTION-A

1. Answer briefly :

a) What should be the angle of repose for good flow?

b) Enlist the types of glass used for packaging.

c) What is the need of granulation while preparing tablets?

d) Give examples of enteric coating polymers.

e) What is the difference between controlled and enteric release?

f) What are ligatures?

g) What are the various sizes of capsules?

h) What are hemostastics?

i) Name few directly compressible excipients.

j) Which solutions are said to be isotonic with blood?

k) Why preservatives are not added to large volume parenterals?

l) Why is microencapsulation of aspirin done?

m) Define bloom strength.

n) Define spray congealing.

o) What is osmotic pump?

SECTION-B

Q2. Write short notes on mottling and picking.

Q3. Define isotonicity. Explain any one method of adjusting isotonicity.

Q4. Explain techniques for the microencapsulation of drugs.

Q5. Briefly discuss the type of materials used for manufacturing organ replacement articles.

Q6. Define lyophilization. Detail the process of preparation of sterile powders.

SECTION-C

Q7. What are the advantages of a controlled release formulation? Discuss in detail the classification of polymers used for formulating CR tablets.

Q8. Outline the steps involved in film coating of tablets with the help of a flow diagram. Mention the formulation and process variables influencing each step. Enumerate film defects that are likely to occur in coated tablets.

Q9. Detail various preformulation factors for parenteral products. Also discuss any one method for adjusting the tonicity.

Q10. Discuss the source of contamination and design of aseptic area.