

(Following Paper ID and Roll No. to be filled in your
Answer Books)

Paper ID : 150612

Roll No.

B. PHARM.

Theory Examination (Semester-VI) 2015-16

PHARMACEUTICS - VIII

(PHARMACEUTICAL TECHNOLOGY-II)

Time : 3 Hours

Max. Marks : 100

Section-A

Q1. Attempt all parts. All parts carry equal marks. Write answer of each part in short. (2×10=20)

- (a) Chemically carbomers are _____ and carbomers are _____ .
- (b) Enteric coating ensures release of drug both in gastric cavity and small intestine. TRUE/FALSE? Write the correct statement.
- (c) Write two pharmaceutical applications of polymethyl methacrylate.

- (d) What are the main ingredients of an effervescent tablet that ensure effervescence when the tablet is placed in water?
- (e) In context to capsules, define base adsorption factor.
- (f) What is the major difference in composition of the soft gelatin capsule and hard gelatin capsule shell?
- (g) Define resealed erythrocytes.
- (h) Expand the terms: SLN and NLC.
- (i) What do you understand by polydispersity index (PDI)?
- (j) Name any two methods of preparation of nanoparticles.

Section-B

Q2. Attempt any five questions from this section:

(10×5=50)

- (a) Classify polymers. Give suitable examples in each class. Give an account of cyclodextrins highlighting their types, storage and pharmaceutical applications.

- (b) Explain the physics of tablet making. Write a note on rotary tablet machines.
- (c) In detail, explain sugar coating process of tablets. Enumerate the evaluation parameters of film coated tablets.
- (d) With the help of flowchart explain the production of hard gelatin capsules. Highlight the quality control parameters of the dosage form.
- (e) Define, and give the advantages and limitations of: (i) liposomes and (ii) transdermal patches.
- (f) Explain any one method of preparation of microparticles. Describe the following evaluation parameters of microparticles: particle size and in vitro release.
- (g) What do you understand by nanoparticles? Explain coacervation phase separation technique for their preparation. How is the surface of the nanoparticle characterized?
- (h) Explain the factors affecting the choice of containers.

Section-C

Attempt any two questions from this section: (15×2=30)

3. Give a descriptive account of types of granulation techniques. Give the advantages of film coating. Write a note on film forming materials that are used for tablet coating.

4. Write short notes on
 - (i) Stability and storage of capsules

 - (ii) Dendrimers

 - (iii) Polymers for microparticles

5. In context to the packaging of pharmaceutical products write about (i) legal and other official requirements for containers, and (ii) stability aspects of packaging.