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Total No. of Questions : 10] [Total No. of Pages : 02

Paper ID [D0133]

(Please fill this Paper ID in OMR Sheet)

B.Pharmacy (Sem. - 7th)

PHARMACEUTICS - VIII

(Pharmaceutical Technology - II) (PHM - 4.7.2)

Time : 03 Hours **Maximum Marks : 80**

Instruction to Candidates:

1) Section - A is **Compulsory**.
2) Attempt any **Four** questions from Section - B.
3) Attempt any **Three** questions from Section - C.

Section - A

Q1) *(15 × 2 = 30)*

a) Define microspheres and differentiate them from microcapsules.

b) What is base absorption factor.

c) What are the pharmacopoeal limits for disintegration time of enteric coated tablets.

d) Mention the causes of blooming in tablets.

e) Mention the causes of picking in tablets.

f) What are pyrogens and how can they be prevented.

g) Lyophilization is normally utilized for which types of drugs.

h) Mention the tests used for testing the integrity of HEPA filter.

i) Mention the quality control tests for surgical cotton.

j) Mention the requirements of a primary package for IV fluids.

k) What are the advantages of a sustained release product.

l) What is 'positive pressure' in a sterile room.

m) What is 'isoosmotic' and why parenteral solutions need to be isoosmotic with blood.

n) Differentiate between absorbable and non-absorbable sutures.

o) What is the pharmacopeal limit for particulate matter in SVP.

Section - B

(4 × 5 = 20)

Q2) Highlight the differences in the nature of capsule shell of a hard gelatin and soft gelatin capsule. What is the pharmacopoeal limit for disintegration time for these capsules.

Q3) Briefly explain the air suspension technique for preparing microcapsules. Mention the process and formulation variables.

Q4) What are the causes for capping and lamination in tablets. Mention their remedies also.

Q5) Mention the sources of contamination and methods to prevent contamination in an aseptic area.

Q6) What are catguts. How are they prepared.

Section - C

(3 × 10 = 30)

Q7) What are the advantages and limitations of transdermal drug delivery. Discuss the innovations in TDDS with respect to drug permeation enhancement.

Q8) Discuss the factors that have to be taken into consideration while packing an aqueous parenteral product with respect to primary and secondary packaging container.

Q9) Describe various official and non-official tests conducted on film coated tablets (mention the official limits also).

Q10) Discuss cleaning and handling of injection vials and their sterilization if they have to be used for packing insulin.