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[Total No. of Pages : 02

Total No. of Questions : 10]

Paper ID [PH472]

(Please fill this Paper ID in OMR Sheet)

B.Pharmacy (Sem. - 7th)

PHARMACEUTICS - VIII (Pharmaceutical Technology - II)

(PHM - 4.7.2)

Maximum Marks : 80

Time : 03 Hours

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

(15 × 2 = 30)

Q1)

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

b) What is meant by friability? What is the acceptable range?

c) Under which conditions gelatin capsules should be stored?

d) Why seal coating is done prior to other coatings during sugar coating of tablets?

e) Which tests are conducted on rubber closures?

f) What are secondary packaging materials and what are their acceptable properties?

g) What is pH-dependent and pH-independent drug release? In which case a zero order release is obtained?

h) Enlist the types of glass used for packaging.

i) How is the sterility achieved in laminar air flow bench?

j) Define 'D' value in sterilization.

k) What is the compendial limit for disintegration time of soluble tablets and dispersible tablets?

l) Give examples of CR parenteral dosage forms.

m) What is meant by sodium chloride equivalent?

n) What is the compendial requirement for particulate matter in LVP?

o) What are hemostastics?

P.T.O.

Section - B

(4 × 5 = 2

Q2) Describe the test and pharmacopoeal limits for weight variation of uncoated tablets (I.P.).

Q3) Describe the test and pharmacopoeal limits for weight variation of hard gelatin capsules (I.P.).

Q4) Briefly describe the preparation of microspheres by incompatible polymer addition method.

Q5) Enlist the defects encountered in coated tablets alongwith their remedies.

Q6) A 1% w/v solution of ephedrine (E valve = 0.23) is to be made isotonic with plasma. Calculate the quantities of (a) sodium chloride, (b) dextrose that may be added for this purpose.

Section - C

(3 × 10 = 30)

Q7) Enlist the approaches that are used for formulating sustained release oral products. Discuss any two in detail.

Q8) Give a schematic representation of tablet manufacture by wet granulation method. Discuss the probable steps that may contribute to weight variation of the tablet and mention the remedies.

Q9) Discuss the lyophilization process for preparing sterile powders. What are the advantages & limitations of this process?

Q10) Discuss the critical issues related to construction of an aseptic room.

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