[No. of Questions : 10]

[Total No. of Pages : 02

-1440[6399 A]

[2957]

B.Pharmacy (Semester - 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 x 2 = 30)*

a) Define minim/gm factor and mentions its use in capsule formulation.

b) Give examples of aqueous and non-aqueous plasticizers used during film coating.

c) Mention the disintegration time of soft and hard gelatin capsules.

d) Give examples of lubricants, glydants and anti-adhearants used in tablet formulation.

e) Define pyrogeni

f) How are glass vials sterilized.

g) Why are dry powders for injection prepared.

h) Define a class 100 room

i) What is a HEPA filter and what is it made of.

j) What are absorbable and non-absorbable sutures made of.

k) Give examples of enteric coating polymers

l) What is the difference between controlled and enteric release.

m) How can insulin injection be sterilized.

P.T.O.

n) Give few examples of adhesives used in adhesive tapes.

o) What are the causes for mottling in tablets.

Section - B

(4 x 5 = 20)

Q2) Briefly discuss the nature of contents that can be filled into soft and hard gelatin capsules.

Q3) Enumerate the approaches used for making microcapsules. Describe the air suspension technique and mention the factors affecting it.

Q4) 'Sodium chloride and ionic surfactants can be used as lubricants? Explain why?

Q5) Define water for injection I.P. and U.S.P. Discuss how pyrogens can be avoided during manufacture and storage of parenterals.

Q6) Briefly discuss the type of materials used for manufacturing organ replacement articles.

Section - C

(3 x 10 = 30)

Q7) 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.

Q8) How drug release from enteric coated tablet differs from sustained release tablet. Enumerate the approaches used for formulating sustained release tablets. Mention the limitations of this dosage form.

Q9) Discuss the design of an aseptic room meant for manufacturing and filling sterile solutions.

Q10) Discuss the factors influencing choice of containers for packaging liquid products. Enumerate the tests conducted for evaluating suitability of low density polyethylene as packaging material.