Sub Code:BOP352

Paper Id: 150517 Roll No:

B. PHARM

(SEM-V) THEORY EXAMINATION 2019-20

PHARMACEUTICS-VI (PHARMACEUTICAL TECHNOLOGY-I)

Time: 3 Hours ***Total Marks: 100***

Note: Attempt all Sections. If require any missing data; then choose suitably.

SECTION A

1. Attempt *all* questions in brief. 2 x 10 = 20

a.	Name two methods for determining physical form of solids.
b.	Write full form of ICH.
c.	Define nanoemulsion.
d.	Write examples of two suspending agents.
e.	What are the disadvantages of oleaginous semisolid bases?
f.	Enlist various mechanisms of permeation of drugs through skin.
g.	Why white soft paraffin is not used in ophthalmic ointments?
h.	Define Sterile water for injection.
i.	Write name of two hydrocarbon propellants used in aerosols
j.	What is test for pyrogens?

SECTION B

2. Attempt any *three* of the following: 10x3=30

a.	Discuss the significance of polymorphism with respect to preformulation studies.
b.	Write the method of preparation of suspension containing diffusible and indiffusible solids.
c.	Define suppositories and various bases used for preparation. How do you determine displacement value?
d.	What are the different methods of preparing ophthalmic ointments?
e.	Discuss various components of an aerosol system in detail.

SECTION C

3. Attempt any *one* part of the following: 10x1=10

a.	What is the significance of pka and pH in preformulation studies?
b.	Write a detailed note on ICH guidelines for stability testing.

4. Attempt any *one* part of the following: 10x1=10

a.	Discuss advantages of emulsion along with various instability problems associated.
b.	Write short note on (i) Multiple Emulsion (ii) Nanosuspension

5. Attempt any *one* part of the following: 10x1=10

a.	Classify semisolid dosage forms. Write method of preparation of a clear gel.
b.	Write short note on (i) In situ Gels (ii) Skin permeation enhancement methods

6. Attempt any *one* part of the following: 10x1=10

a.	Discuss sequence of steps involved during manufacturing of a Parenteral preparation.
b.	Discuss method of preparation of sterile water for injection along with its Pharmacopoeial Specifications.

7. Attempt any *one* part of the following: 10x1=10

a.	Write a detailed note on Manufacturing and evaluation of Pharmaceutical aerosols.
b.	What are the regulatory requirements for approval of animal drugs?

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