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Printed pages: 02 **Roll No.** | | | | | | | | | | | **Sub Code: BOP-352**

PaperID:5048

BACHELORE OF PHARMACY
(SEM -V) THEORY EXAMINATION 2017-18
PHARMACEUTICS-VI
(Pharmaceutical Technology-I)

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

Note: 1. Attempt all Sections. If require any missing data; then choose suitably.

SECTION A

1. Attempt *all* questions in brief. 2 x10 = 20

a. What are the objectives of preformulation studies?
b. Name the methods for assessment of particle size.
c. Enlist additives frequently used in suspensions.
d. Name two emulsifying agents.
e. Enlist the various methods of skin permeation.
f. What is the role of surfactants in formulation of emulsions?
g. What are the drawbacks of oleaginous semi-solid bases?
h. Name any two suspending agents of natural origin used in formulation of suspensions.
i. What are pyrogens. Name a method to detect them in parenterals.
j. Name any two propellants used in inhalation aerosols.

SECTION B

2. Attempt any *three* of the following: 10 x 3 = 30

a. Classify the various ointment bases with suitable example. Add a note on the desired properties of an ointment base.
b. What are aerosol propellants? Classify different aerosol propellants. Add a note on in-vitro evaluation of pharmaceutical aerosols.
c. Define pharmaceutical suspension and discuss in brief about the additives used in formulation of suspensions.
d. Why sterility is necessary for parenteral preparations? Discuss in detail the evaluation parameters for parenterals.
e. What is displacement value for suppositories? Add a note on suppository bases.

SECTION C

3. Attempt any *two* parts of the following: 5 x 2 = 10

(a) Write short note on sterile water for injection.
(b) Write short note on emulsifier.
(c) Discuss in brief about dissolution study.

4. Attempt any *two* parts of the following: 5 x 2 = 10

(a) Write a short note on ICH guidelines for stability study.
(b) Discuss in brief about suspending agents.
(c) Discuss in brief about formulation and evaluation of ophthalmic products.

5. Attempt any *two* parts of the following: 5 x 2 = 10

(a) Write a note on multiple emulsion.
(b) What is the significance of partition coefficient in preformulation studies.
(c) Regulatory requirement for veterinary products.

6. Attempt any *two* parts of the following: 5 x 2 = 10

(a) State the method for estimation of solubility of drugs..

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(b) Write a short note on nanosuspension.

(c) Discuss about evaluation of suppositories.

7. Attempt any *two* parts of the following: 5 x 2 = 10

(a) Discuss about formulation of pharmaceutical gels for topical administration.

(b) Write short notes on structured vehicles. State few examples of the same.

(c) What are the various advantages of pharmaceutical aerosols.

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