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M. PHARM.
(SEM II) THEORY EXAMINATION 2017-18
MOLECULAR PHARMACEUTICS (NANOTECHNOLOGY AND TARGETED DDS)

Time: 3 Hours ***Total Marks: 75***

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

SECTION A

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

a. What are the disadvantages of Gene therapy?
b. Mention the challenges of Gene therapy?
c. What is Phytosomes?
d. Mention the evaluation parameters for nanoparticles.
e. How blood brain barrier plays a major role in brain targeting?
f. Mention the Physiology of Tumor.
g. What are the factors to be considered for selection of containers for aerosols?
h. Mention the targeted therapies available for Tumor treatment.
i. What are the concepts of drug targeting?
j. Name the propellent 111.

SECTION B

2. Attempt any *two* of the following: **2 x 10 = 20**

a. Describe the biological parameters for drug parameters for Tumor targeting.
b. Explain how to achieve tumor targeting?
c. Write in detail about the concepts of Gene Therapy.

SECTION C

3. Attempt any *five* part of the following: **7 x 5 = 35**

a. Elaborate the preparation of microcapsules by Air suspension technique.
b. Write a note on preparation of Liposomes.
c. Write a note on propellents & containers in the preparation of aerosols.
d. Write a note on aptamers.
e. Mention the approaches for brain targeting.
f. Give a detailed note on difficulties in Tumor targeting.
g. Explain various types of formulations available for Nasal route drug delivery system.

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