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Sub Code: MPH 201T

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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 propellant 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.