

**THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY**

**[MPHARM 0122]**

**JANUARY 2022  
(APRIL 2021 EXAM SESSION)**

**Sub. Code: 2935**

**M.PHARMACY DEGREE EXAMINATION  
SEMESTER-II (PCI New regulations 2016)  
PHARMACEUTICS - MPH**

**PAPER I – MOLECULAR PHARMACEUTICS (NANO TECH AND TARGETED DDS)  
*Q.P. Code : 262935***

**Time : Three hours**

**Answer ALL Questions**

**Maximum : 75 Marks**

**I. Elaborate on:**

**(2 x 20 = 40)**

1. Explain the types, preparation, propellents, containers and evaluation of Aerosols.
2. Define Nanoparticles and discuss their types, preparation and evaluation including the applications in the medical field.

**II. Write notes on:**

**(7 x 5 = 35)**

1. Tumor targeting.
2. Phytosomes.
3. Evaluation of Intra nasal delivery systems.
4. Significance of gene therapy.
5. Aptamers.
6. Targeting methods.
7. Liposomal gene delivery systems.

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