Printed Pages:01 **Sub Code:MPH201T**

Paper Id: 256201 **Roll No.** | | | | | | | | | | |

M PHARM

(SEM-II) THEORY EXAMINATION 2018-19

MOLECULAR PHARMACEUTICS (NANO TECHNOLOGY & 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. Define targeted drug delivery.
b. Define significance of drug targeting.
c. Define dual targeting.
d. Define ADEPT& GDEPT.
e. Define liposome with its significance.
f. Define microcapsule and microsphere.
g. Define hybridoma technology.
h. Define electrosome.
i. Define propellant.
j. Define Gene expression.

SECTION B

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

a. Explain the important strategies of drug targeting.
b. Define ex-vivo & in-vivo gene therapy.
c. Explain introduction preparation and evaluation of Nano-Particles.

SECTION C

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

a. Explain introduction preparation and evaluation of microsphere& micro capsule.
b. Write a short note on-
   i. Coacervation phase separation technique for microencapsulation.
   ii. Air suspension method
   iii. polymerization
c. Explain introduction preparation and evaluation of aerosols.
d. Write a short note on-
   i. Noisome,
   ii. Aquasomes
   iii. Phytosomes
   iv. Electrosomes.
e. Compare spray drying and spray congealing method of microencapsulation.
f. Explain Preparation and application of Monoclonal antibodies.
g. Explain in brief with example the role of receptor and ligands in targeted drug delivery.

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