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Roll No

MPY-PCS(C)

M.Pharmacy III Semester Examination, June 2020

Nano Drug Delivery Systems

(Elective)

Time : Three Hours

Maximum Marks : 70

- Note :** i) Attempt any five questions.
ii) All questions carry equal marks.

1. Discuss the procedure involved in design and development of liposomes in detail.
2. Justify rationale for targeted drug delivery and discuss about cellular uptake and biological process involved in drug targeting.
3. Discuss the chemistry involved in formation of PEGylated nanocarriers.
4. Describe in details about the design and development of nanoparticles and nanotubes.
5. Write a specific note on the use of nanomaterials in diagnostic kits and MRI contrast enhancement.
6. What are dendrimers? Discuss their method of synthesis, characterization and pharmaceutical applications.
7. Discuss the use of nanoparticles in targeted therapy for breast and liver cancer.
8. Write short notes on any two of the following:
 - a) Self assembling nanostructures
 - b) Drug targeting through EPR
 - c) Bioconjugation and antibodies based mechanisms.
