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School of Medical and Allied Sciences

Bachelor of Pharmacy

Semester End Examination - Nov 2023

Duration : 180 Minutes

Max Marks : 75

Sem VII- BPHT7004- Novel Drug Delivery SystemGeneral Instructions*Answer to the specific question asked**Draw neat, labelled diagrams wherever necessary**Approved data hand books are allowed subject to verification by the Invigilator*

- 1) What is the difference between bioerodible ocular inserts and soluble ocular inserts? K2 (2)
- 2) Explain the term targeted drug delivery system. K2 (2)
- 3) What are the advantages of Ocular drug delivery system? K1 (2)
- 4) Classify liposomes. K2 (2)
- 5) What is the basic rationale of Controlled drug delivery system? K1 (2)
- 6) Demonstrate the applications of implantable drug delivery system. K2 (2)
- 7) List various marketed transdermal patches with respect to backing membrane, Drug reservoir, polymer membrane, pressure sensitive adhesive and release liner. K1 (2)
- 8) Summarize the difference between biodegradable and non-biodegradable implants. K2 (2)
- 9) What are the advantages of carbon nanotubes in medicine? K1 (2)
- 10) List the various polymers used in the formulation of controlled release drug delivery systems. K1 (2)
- 11) Make use of examples, explain the approaches for the Controlled release formulations based on ion exchange technique K3 (5)

OR

- Identify any one marketed controlled release formulation in detail. K3 (5)
- 12) Build a note on various intra-ocular barriers in brief. K3 (5)
 - 13) Distinguish between the mucoadhesive system and high density floating system approaches for designing gastroretentive drug delivery system. K4 (5)

- 14) Construct a note on ether injection method and ethanol injection method for the preparation of liposomes. K3 (5)
- 15) Simplify any two methods for the preparation of niosomes. K4 (5)
- 16) List various applications of graphene for cancer drug delivery system. K4 (5)

OR

- Simplify any one marketed ocusert preparation. K4 (5)
- 17) Simplify any two methods for the preparation of nanoparticles. K4 (5)
- 18) Elaborate the rate -programmed mechanism of implantable drug delivery system. K6 (10)
- 19) Explain any one marketed ocusert preparation with respect to indication and basic components of ocuserts. K5 (10)

OR

- Explain any three methods for the preparation of liposomes with the help of well labelled diagram. K5 (10)