



25024909

QP CODE: 25024909

Reg No :

Name :

M.Sc DEGREE (CSS) EXAMINATION, APRIL 2025

Fourth Semester

M Sc Bionanotechnology

ELECTIVE - BS890403 - NANOMEDICINE

2019 ADMISSION ONWARDS

150CABF7

Time: 3 Hours

Weightage: 30

Part A (Short Answer Questions)

*Answer any **eight** questions.*

Weight 1 each.

1. What is Nanocytometer?
2. Define Nano pharmaceuticals with examples.
3. Define Nano based suspensions with examples.
4. What is Nanocardiology?
5. Cite relevant examples of liposomes.
6. Write the definition of Bioconjugation.
7. Define polymer nanotubes with suitable examples.
8. Write the definition of Tissue Engineering.
9. List the potential barriers evading the successful commercialization of nanotechnology for medical applications.
10. Define Research aspects of Nanomedicine.

(8×1=8 weightage)

Part B (Short Essay/Problems)

*Answer any **six** questions.*

Weight 2 each.

11. Mention the applications of Nanogels.
12. Cite relevant examples of Nanoformulations.
13. Mention the role of nanotechnology in the orthopedic application as sports medicine.





14. Define the preparation of liposomal nanoparticles.
15. How are nanostructures employed in controlled drug release?
16. List the applications and limitations of dendrimers in medical field.
17. What are the applications of Nanobiotechnology in the field of ophthalmology?
18. Write a note on future of Nanomedicine.

(6×2=12 weightage)

Part C (Essay Type Questions)

*Answer any **two** questions.*

*Weight **5** each.*

19. Describe the advantages and applications of Nanoencapsulation.
20. Describe the therapeutic applications of Nanotechnology in Neuroscience.
21. Describe Nanoscaffolds. List their advantages.
22. How the use of nanotechnologies has led to the rapid advances in stem cell therapy in Regenerative medicine?

(2×5=10 weightage)

