

School of Biomedical Science

Bachelor of Science in Medical Biotechnology
Semester End Examination - Jun 2024

Duration : 180 Minutes
Max Marks : 100

Sem II - Q1UG203T - Nanomedicine and Drug Delivery

General 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

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|-----|---|--------|
| 1) | Define gene? | K1(2) |
| 2) | Explain novel drug delivery system? | K2(4) |
| 3) | Explain advantages do nanoparticles offer in bioanalytical applications compared to conventional methods? | K2(6) |
| 4) | Illustrate nanotoxicity on plants and animals? | K3(9) |
| 5) | Illustrate the strategies employed to miniaturize diagnostic devices using nanotechnology? | K3(9) |
| 6) | How do researchers examine the biocompatibility of nanomaterials for in vivo diagnostics? | K5(10) |
| 7) | Analyze measures in place to prevent accidental exposure to nanomaterials in manufacturing facilities? | K4(12) |
| 8) | Examine strategies can be employed to enhance the stability and biocompatibility of quantum dots for in vivo imaging? | K5(15) |
| 9) | Examine the influence of nanoparticle size and shape on their cellular internalization in gene therapy applications. | K5(15) |
| 10) | Discuss all the types of carbon based nanostructures with significance on drug delivery? | K6(18) |