

M. Tech. (Nano Technology) Sem-III (CBCS – 2015 Course) :
SUMMER - 2019
SUBJECT-ELECTIVE-I C) NANO MEDICINE

Day: Friday
Date: 17/05/2019

S-2019-3353

Time: 11.00 AM TO 02.00 PM
Max. Marks: 60

N.B:

- 1) All questions are **COMPULSORY**.
- 2) Figures to the right indicate **FULL** marks.
- 3) Use of non- programmable calculator is **ALLOWED**.
- 4) Assume suitable data if necessary.

SECTION-I

Q.1 Define 'Drug delivery'. List the types of drug delivery systems. Explain any one in detail. **(10)**

OR

Q.1 Describe the usefulness of nanomedicine for various biomedical applications. **(10)**

Q.2 Give a detailed overview about diagnosis, testing and characterization of nanotrio systems. **(10)**

OR

Q.2 Define 'gene therapy'. Describe the usefulness of biofunctionalized nanoparticles for the same. **(10)**

Q.3 Define 'nanobots'. State their biomedical applications. **(10)**

OR

Q.3 Discuss the usefulness of liposomes as carriers in drug delivery systems. **(10)**

SECTION-II

Q.4 Explain the pharmaceutical applications of various nanoparticles, giving specific examples. **(10)**

OR

Q.4 Describe the diagnosis, testing and characterization of nanotrio systems. **(10)**

Q.5 Write a brief note on use of nanoshells for drug delivery. **(10)**

OR

Q.5 What are core shell nanomaterials? List their biomedical applications. **(10)**

Q.6 Give an overview of targeted drug delivery system. **(10)**

OR

Q.6 Write a brief note on role of nanomedicine in tissue engineering. **(10)**

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