

**M. Tech. (Nano Technology) Sem-III (CBCS – 2015 Course) :**  
**WINTER - 2018**

**SUBJECT-ELECTIVE-I C) NANO MEDICINE**

Day: Tuesday  
Date: 04/12/2018

**W-2018-3088**

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** Describe the potential importance of ‘nanomedicine’ in the biomedical domain. **(10)**

**OR**

**Q.1** Discuss the Pharmaceutical applications of nanomedicine. **(10)**

**Q.2** Define ‘Drug delivery’. Add a note on types of drug delivery systems. **(10)**

**OR**

**Q.2** Give an overview of sustained drug delivery system, giving specific examples. **(10)**

**Q.3** Describe various nanocarriers used for drug delivery. **(10)**

**OR**

**Q.3** Describe the pivotal role of ‘Nanobots’ in cancer detection & treatment. **(10)**

**SECTION-II**

**Q.4** Explain the significance of the theranostic nanoparticles. Give suitable examples. **(10)**

**OR**

**Q.4** Explain the strategies used to enable improved drug efficacy. **(10)**

**Q.5** Describe the advantages and limitations of use of dendrites for drug delivery. **(10)**

**OR**

**Q.5** What are ‘Polymeric micelles’? List their advantages as drug delivery system. **(10)**

**Q.6** Describe the significance of nanoparticles for gene therapy. **(10)**

**OR**

**Q.6** Describe the role of liposomes for cancer treatment. **(10)**

\* \* \* \* \*