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Total No. of Pages : 02

Total No. of Questions : 18

B.Tech. (Bio Technology) (Sem.-5)**NANOBIOTECHNOLOGY****Subject Code : BSBT-507-18****M.Code : 78241****Time : 3 Hrs.****Max. Marks : 60****INSTRUCTIONS TO CANDIDATES :**

1. **SECTION-A** is **COMPULSORY** consisting of **TEN** questions carrying **TWO** marks each.
2. **SECTION-B** contains **FIVE** questions carrying **FIVE** marks each and students have to attempt any **FOUR** questions.
3. **SECTION-C** contains **THREE** questions carrying **TEN** marks each and students have to attempt any **TWO** questions.

SECTION-A**Write briefly :**

- 1) What is the importance of Nano-dimension?
- 2) What are the Surface effects of nano-material?
- 3) Write short note on Quantum structures.
- 4) Give brief account on Laser ablation.
- 5) What is Chemical vapor deposition?
- 6) Write short note on Atomic force microscopy.
- 7) What are Bionano motors?
- 8) What are Biopolymers?
- 9) Give brief account on fabrications.
- 10) What is the role of biological Nano-Machines?



**SECTION-B**

- 11) Write down effect of 'nano' scale on various material properties.
- 12) Give detail account on UV-Vis Spectroscopy.
- 13) Explain biogenic synthesis of nano-particles.
- 14) What is the role of lipid nano-particles for drug delivery applications?
- 15) What is the current status of Nano-Biotechnology?

SECTION-C

- 16) Write applications, challenges and future prospects of nanotechnology.
- 17) Explain characterization of nanostructures.
- 18) What are the cytotoxic and genotoxic effects of nanomaterial?

NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.

