

Roll No.

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Total No. of Pages :02

Total No. of Questions : 09

B.Sc. (BT) (2013 to 2017) (Sem.-3)
TECHNIQUES IN BIOTECHNOLOGY-I
Subject Code :BSBT-207
Paper ID : [F0215]

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTION 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 has to attempt any **FOUR** questions.
3. **SECTION-C** contains **THREE** questions carrying **TEN** marks each and students has to attempt any **TWO** questions.

SECTION-A**Q.1 Define :**

- i) Autoclave
- ii) CT Scan
- iii) Microarrays
- iv) Spectroscopy
- v) Microfluidics
- vi) Buffers
- vii) PCR
- viii) Nanotechnology
- ix) Proteomics
- x) Electrophoresis

SECTION-B

- Q.2 List different methods of Sterilization. Discuss.
- Q.3 Explain the principle of NMR.
- Q.4 Discuss the principle of Scanning Electron Microscopy.
- Q5. Discuss methods for Nucleic Acid Quantitation.
- Q.6 Write the principle of Thin Layer Chromatography.

SECTION-C

- Q.7 Elaborate on Principle, Applications and limitations of Ion exchange chromatography.
- Q.8 Write about Principle and scope of Absorption Chromatography.
- Q.9 Explain principle of Light and Electron microscopy and their application/use.