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Total No. of Questions: 09

B.Sc. (BT) (2013 to 2017) (Sem.-4) STEM CELL TECHNOLOGY Subject Code: BSBT-210

Paper ID: [F0242]

Time: 3 Hrs. Max. Marks: 60

#### **INSTRUCTION TO CANDIDATES:**

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

## **SECTION-A**

#### **Q.1 Define:**

- i)
- ii)
- Jon.
  Jogous Transplant.

  Trophoblast stem cells.

  Transit Cells. iii)
- iv)
- v)
- vi) Teratoma.
- vii) Stem cell plasticity.
- viii) Stochastic model.
- Stem cell Microenvironment. ix)
- Stem cell niche. x)



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## **SECTION-B**

- Q.2 Write a note on Differentiation and Self Renewal in stem cells.
- Q.3 What is Deterministic model? Explain.
- Q.4 Write a note on Epidermal stem cells.
- Q.5 Discuss the role of microenvironment in Stem cell development and maintenance.
- Q.6 Write a note on Xenograft systems for Stem cell gene therapy.

# **SECTION-C**

- Q.7 Deliberate on the source, properties and therapeutic applications of embryonic stem cells.
- Q.8 What are different hematopoietic stem cell assays? Discuss their principles and concepts.
- ene the second s Elaborate on application of Stem cells in Gene therapy. Q.9

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