Roll No.

94172

B. Sc. 6th Semester (Bio-Technology)

Examination – April, 2014

Animal Blo Technology

Paper: BT-602

Time: Three Hours]

[Maximum Marks: 40

Before answering the questions, candidates should ensure that they have been supplied the correct and complete question paper. No complaint in this regard, will be entertained after examination.

- Note: Question No.1 is compulsory and attempt any four questions selecting one question from each Unit given below. All questions carry equal marks.
 - 1. Write note on the following:
 - (a) Reporter gene
 - (b) Transfection
 - (c) Transgenesis

restor used

(d) Cloning Vector
fluid ejected by penis of male;
(e) Semen contain sperm of planma.

- (f) Clone Exact copy of an individual

 (g) Gene Tagging To specify or tag a gone for modification

 (h) Genetic engineering after alien of gene of an UNIT-1 individual.
- 2. What are stem cells? Difference between the embryonic and somatic stem cells.
- **3.** Write note on any *two* on the following:
 - (a) Retrovirus
 - (b) Microinjection
 - (c) Polyethylene glycol

UNIT - II

- 4. What is animal biotechnology? Describe role of animal biotechnology in Trypanosomiasis and Theileriosis.
- **5.** Write note on the following:
 - (a) Transgenic Mice
 - (b) Transgenic Sheep (Dolly)

UNIT - III

- **6.** Write note on the following:
 - (a) Artificial insemination
 - (b) Human cloning
- 7. Describe the various applications of stem cell in the field of medical sciences.

UNIT - IV

- 8. What is gene therapy? Describe various step and requirements involved during the gene therapy.
- 9. Describe various problems and ethical issues related to the human genetic engineering.