



Faculty of Animal Science & Export Agriculture  
Uva Wellassa University of Sri Lanka

B.ASc. Degree Programme  
Year III Semester I

End Semester Examination – December 2008/January 2009

ANS 332-3 Animal Biotechnology - Essay (Section II)

### Instructions

Answer all questions in the booklet provided

No. of questions : Three (03)

No. of pages : One (01)

Time : One hour & thirty minutes (01 hr & 30 min.)

Total marks allocated : 60%

Index No:

1. Using your knowledge on BIOTECHNOLOGY explain how you would improve the feed quality, feeding strategy and nutrient utilization in high producing dairy cattle. (Important: emphasize on upgrading of low quality feeds, efficient digestion in the rumen) (100 marks)
2. Write short notes on ,
  - a) Southern blotting
  - b) Construction of cDNA library
  - c) Cloning
 (100 marks)
3.
  - a) Write a complete account on Restriction enzymes ( Including Definitions, classifications and uses)
  - b) Lac Z gene is an essential gene for bacterial survival, but you can use it as a marker gene. State how you can use this Lac Z gene as a marker gene (100 marks)

[End of Section II]