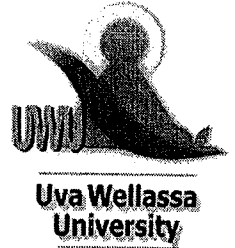


Uva Wellassa University of Sri Lanka  
End Semester Examination – August/ September 2011  
Faculty of Animal Science & Export Agriculture  
B.ASc. Degree Programme  
Year III Semester II



ANS 332-3 Animal Biotechnology –Essay - (Section III)  
Repeat Examination

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**Instructions**

Answer all questions in Section III 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:

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1.

- a) Write a complete account on **Restriction enzymes** ( Including Definitions, classifications and uses)
- b) “**Embryonic stem cell mediated gene transformation resulted in mosaic individuals**” What is your opinion about this statement Agree/disagree? Justify your answer

2. 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**

3. Write short notes/on ,

- a) **Southern blotting**
- b) **Somatic cell nuclear transfer (SCNT)**
- c) **Construction of cDNA library**
- d) **DNA Cloning**

[End of Section III]