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**1<sup>ST</sup> SEM. 2018/2019**

**UNIVERSITY OF ESWATINI**

**RE-SIT EXAMINATION PAPER**

**PROGRAMME:** **B.Sc. ANIMAL SCIENCE (DAIRY  
OPTION) YEAR IV**

**COURSE CODE:** **ASD 302/ASD401**

**TITLE OF PAPER:** **PRINCIPLES OF DAIRY  
BIOTECHNOLOGY/ DAIRY  
BIOTECHNOLOGY AND BIOSAFETY**

**TIME ALLOWED:** **TWO (2) HOURS**

**INSTRUCTIONS:** **ANSWER ANY FOUR (4) QUESTIONS.**

**DO NOT OPEN THIS PAPER UNTIL PERMISSION HAS BEEN  
GRANTED BY THE CHIEF INVIGILATOR.**

### QUESTION 1

Discuss the key procedures in fermentation.

(25 Marks)

### QUESTION 2

Write short notes on the following:

- a. Sterilisation.
- b. Importance of biotechnology in ESwatini.

(15 Marks)

(10 Marks)

(25 Marks)

### QUESTION 3

Discuss animal cloning and the procedure involved.

(25 Marks)

### QUESTION 4

List and briefly describe any five components of the National Biosafety Framework.

(25 Marks)

### QUESTION 5

Write short notes about:

- a. The Precautionary Approach Principle of biosafety.
- b. The significance of traceability and labelling in biosafety.

(15 Marks)

(10 Marks)

(25 Marks)