# BINDURA UNIVERSITY OF SCIENCE EDUCATION

### FACULTY OF AGRICULTURE AND ENVIRONMENTAL SCIENCE

**AGA 429** 

## Department of Animal Science BSc. Animal Science and Technology Part IV Examination

# **Animal Products and Processing**

 $\mathbf{c}$ 

3 HOURS (100 Marks)



# **INSTRUCTIONS**

Answer any FOUR questions. Each question carries 25 marks.

1. Explain how the Commission International De I' Eclairage (0	CIE)" colour system (CIE,
1976) is used to measure meat colour.	[25 marks]
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2. Discuss the following causes of food spoilage:	
a) Microorganism.	[6 marks]
b) Chemical.	[6 marks]
c) Physical.	[7 marks]
d) Vermin.	[6 marks]
3. Describe the conversion of muscle to meat.	[25 marks]
4. Discuss the following methods of meat preservation:	
a) Canning.	[5 marks]
b) Freezing.	[5 marks]
c) Smoking.	[5 marks]
d) Salt and air drying.	[10 marks]
5. Outline the seven principles of a HCCP plan.	[25 marks]
6. Discuss how the following factors affect meat quality:	
a) pH.	[4 marks]
b) Age.	[4 marks]
c) Breed.	[4 marks]
d) Pre- slaughter stress.	[13 marks]
End of Paper	

Page 1 of 1