BINDURA UNIVERSITY OF SCIENCE EDUCATION FACULTY OF AGRICULTURE AND ENVIRONMENTAL SCIENCE

AGA 107 EXAM PAPER 1

DEPARTMENT OF ANIMAL SCIENCE IMMUNOLOGY

3 HOURS (100 Marks) INSTRUCTIONS TO CANDIDATES



Answer any FOUR questions. Each question carries 25 Marks

	Giving examples describe the following types of immunity: a) Definition and components of the immune system. b) Innate immunity. c) Adaptive immunity. d) Passive immunity. e) Active Immunity.	[5 marks] [5 marks] [5 marks] [5 marks]
2.	 Blood is an important fluid connective tissue: Answer the following question a) List any five functions of blood. b) Identify the types of blood cells. c) Give any two general functions of White Blood Cells (WBCs). d) List the five types of White Blood Cells and indicate the roles of each W fighting infections. 	[10 marks] [3 marks] [2 marks]
3.	Identify twelve (12) types of cells involved in immunity and their functions.	[25 marks]
l.	List five key diseases to vaccinate against for each of the farm animals: a) Beef cattle. b) Dairy cattle. c) Goats. d) Broilers. e) Pigs.	[5 marks] [5 marks] [5 marks] [5 marks]
i.	Discuss the factors to consider in developing a vaccination strategy.	[25 marks]

END OF EXAM PAPER 1

6. Describe *the two major* components of the adaptive immune system. [25 marks]