

ELIZADE UNIVERSITY, ILARA-MOKIN, ONDO STATTE, NIGERIA

BASIC & APPLIED SCIENCES BIOLOGICAL SCIENCES FIRST SEMESTER EXAMINATION 2016/2017 ACADEMIC SESSION

COURSE CODE:	BTH410
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ANIMAL BIOTECHNOLOGY **COURSE TITLE:**

2 HOURS 30 MINUTES **DURATION:**

HOD's SIGNATURE

NAME:.....MAT. No:.....

INSTRUCTIONS

Answer any four (4) questions. Each question is 15 Marks.

QUESTIONS

- 1. a) State the three main functions of antibodies.
 - b) i. With the aid of a diagram, explain the general structure of immunoglobins ii Outline and explain the isotopic form of immunoglobin based on heavy chain
- 2. a) What is cell and tissue culture? Differentiate between primary culture and subculture
 - b) Outline and explain five applications of cell culture
- 3. a) Write short note on each of the following terms:
 - Antigen shifting
 - ii. Autoimmune
 - iii. Allergy
 - iv. Oposonization
 - v. Cytolysis
 - vi. chemtaxis
 - b) Explain the differences between innate and adaptive immunity
- 4 a) What is a vaccine? Differentiate between vaccination and immunization.
 - b) Differentiate between attenuated and inactivated vaccines.
- 5. a) How was stem cell technology employed in the treatment of Cardiovascular disease treatment
 - b) List and explain the general applications of animal biotechnology.
- 6. a) What are stem cells, list the two categories of stem cells and there sources
 - b) Define the following terms;
 - I. Totipotent
 - ii. Pluripotent
 - iii. Multipotent
 - iv. Oligopotent
 - v. Unipotent