

BMET 454

CHUKA



UNIVERSITY

UNIVERSITY EXAMINATIONS

EXAMINATION FOR THE AWARD OF BACHELOR OF SCIENCE IN
BIOCHEMISTRY AND BIOMEDICAL SCIENCE AND TECHNOLOGY

BMET 454: BIOETHICS

STREAMS: BSC. BIOCHEMISTRY & BSC BIOMED SCI (Y4, S2) TIME: 2 HOURS

DAY/DATE: THURSDAY 9/04/2020

8.30 A.M – 10.30 A.M.

INSTRUCTIONS

- Answer Question **One** and any other **Two** questions
- Do not write anything on the question paper

QUESTION ONE

- Outline the underlying ethical principles regarding human experimentation. [5 Marks]
- In 2010, the National Institute of Justice in the United States published recommended rights of human subjects. Outline these rights. [5 Marks]
- Explain the primary objection for organ transplant in human. [4 Marks]
- Explain some steps to take while applying for a patent. [2 Marks]
- Briefly explain the three ethical principles as applied in clinical research. [4 Marks]
- Differentiate between traditional surrogacy and gestational surrogacy. [4 Marks]
- Explain some of the problems associated with freezing of embryos for latter use *In Vitro* Fertilisation. [6 marks]

QUESTION TWO [20 MARKS]

- a. Describe in detail various moral theories. [10 Marks]
- b. Describe in detail the Summary of the Patent Cooperation Treaty (PCT) (1970). [10 Marks]

QUESTION THREE [20 MARKS]

- a. Explain according to Leon Kiss why it is morally wrong to clone a human being. [10 Marks]
- b. Explain briefly the history of human experimentation. [10 Marks]

QUESTION FOUR [20 MARKS]

- a. Describe some ethical issues and arguments arising from stem cell research.[5 Marks]
 - b. The Nuremburg code and the Declaration of Helsinki outlined various principles regarding use of humans for experiments. Briefly state them. [5 Marks]
 - c. Describe in detail the measures to be taken when conducting xenotransplantation. [10 Marks]
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