

STREAM: Y3S1

ZOOL 322: INTRODUCTION TO BIOINFORMATICS

JULY 2022 SPECIAL EXAMS

INSTRUCTIONS

1. Do not write anything on this paper
2. Answer ALL questions in SECTION A and any other TWO questions from SECTION B.

SECTION A (40MARKS)

QUESTION ONE

Explain sequencing method in detail (5mks)

QUESTION TWO

Discuss the broad coverage of Bioinformatics in detail (5mks)

QUESTION THREE

Discuss text mining and biological natural language processing (5mks)

QUESTION FOUR

Explain Gene testing (5mks)

QUESTION FIVE

Describe Genome analysis (5mks)

QUESTION SIX

Discuss molecular Biology Databases (5mks)

QUESTION SEVEN

Discuss DNA methods in disease diagnosis (5mks)

QUESTION EIGHT

Discuss DNA chip technology and micro-arrays (5mks)

SECTION B (30 MARKS)

QUESTION NINE

Discuss the following (15mks)

- i. Human genome project and its scope
- ii. DNA methods in disease diagnosis
- iii. Pharmaceutical DNA products

QUESTION TEN

Discuss sequence search and alignment (15mks)

QUESTION ELEVEN

Discuss the various application of Biotechnology in health care (15mks)

