



UNIVERSITY EXAMINATIONS
FIRST YEAR EXAMINATION FOR THE AWARD OF THE
DEGREE OF BACHELOR OF SCIENCE IN LABORATORY TECHNOLOGY
SECOND SEMESTER 2022/2023
[JANUARY-APRIL, 2023]

BSLT 110: MORPHOLOGY AND PHYSIOLOGY OF LIVING THINGS

STREAM: Y1S2

TIME: 2 HOURS

DAY: MONDAY, 12:00 – 2:00 PM

DATE: 03/04/2023

INSTRUCTIONS

- 1. Do not write anything on this question paper.**
- 2. Answer question ONE and any other TWO questions in Section B.**

SECTION A

1. Differentiate between
 - a. Morphology and physiology (2marks)
 - b. Anatomy and Eidonomy (2marks)
 - c. Holocarpic and eucarpic (2marks)
 - d. Teleomorph and anamorph (2marks)
2. Elaborate more on the three branches of morphology. (3marks)
3. Sporangium consists of different parts, Discuss (6marks)
4. The life-cycle of a bryophyte shows regular alternation of generation, discuss in details highlighting its type of alternation of generations. (7marks)
5. Algae range in size from minute unicellular plants to very large highly differentiated multicellular forms, differentiate the existing six forms of Algae. (6marks)
6. Distinguish between the three distinctive characteristics of the chordates. (6marks)
7. Briefly describe the anatomy of class Arachnida. (4marks)

SECTION B

8. The Life Cycle of Myxomycetes undergoes bi-phasic life cycle with a haploid and a diploid phase. Discuss. (15marks)
9. Briefly discuss morphology and physiology of pteridophytes. (15marks)
10. Phylum annelida is made up of three Classes, namely Polychaeta, Oligochaeta and Hirudinia, discuss the morphology and physiology of class Oligochaeta. (15marks)