



UNIVERSITY EXAMINATIONS
FIRST YEAR EXAMINATION FOR THE AWARD OF THE
DIPLOMA IN FISHERIES AND AQUACULTURE
SECOND SEMESTER 2023/2024
[JAN - APRIL, 2024]

BOTA 0100: GENERAL BOTANY

STREAM: Y1 S2

TIME: 2 HOURS

DAY: TUESDAY, 3:00 - 5:00 P.M.

DATE: 23/04/2024

INSTRUCTIONS

- 1. Do not write anything on this question paper.***
- 2. Answer question ONE in section A (Compulsory) and any other TWO questions from section B.***

SECTION A

QUESTION ONE

- (a) Explain why humans get seriously ill quickly when pathogenic microbes invade their body (2 marks)
- (b) Why are spores important in the life cycle of bacteria? (2 marks)

QUESTION TWO

- (a) Using appropriate formula, discuss the process of photosynthesis (4 marks)
- (b) List the importance of photosynthesis (3 marks)

QUESTION THREE

Describe how bacteria make their food (6 marks)

QUESTION FOUR

Explain the meaning of the following terms as used in botany

- (a) Heterotrophs
- (b) Mitosis

- (c) Transpiration
 - (d) Phloem
 - (e) Zygote
 - (f) Rhizoids
- (6 marks)

QUESTION FIVE

Describe the functions of vascular tissues in higher plants (6 marks)

QUESTION SIX

List the organs found in the shoot system of angiosperms (4 marks)

QUESTION SEVEN

(a) Using appropriate examples, differentiate between prokaryotic and eukaryotic cells (2 marks)

(b) In which areas are bacteria useful to man? (5 marks)

SECTION B

QUESTION EIGHT

Compare and contrast the morphology and physiology between the two classes of Angiospermophyta (15 marks)

QUESTION NINE

Using illustration, discuss the life cycle of bryophytes (15 Marks)

QUESTION ELEVEN

Discuss excretion in higher plants (15 marks)