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OFFICE OF THE DEPUTY PRINCIPAL
ACADEMICS, STUDENT AFFAIRS AND RESEARCH

UNIVERSITY EXAMINATIONS

2018 /2019 ACADEMIC YEAR

FIRST YEAR FIRST SEMESTER REGULAR EXAMINATION

FOR THE DEGREE OF BACHELOR OF EDUCATION (SCIENCE)

COURSE CODE: **BOT 101E**

COURSE TITLE: **GENERAL BOTANY**

DATE: 13TH DECEMBER, 2018 **TIME: 9.00 AM – 12.00 PM**

INSTRUCTIONS TO CANDIDATES

- **SEE INSIDE**

THIS PAPER CONSISTS OF 3 PRINTED PAGES **PLEASE TURN OVER**

BOT 101E: GENERAL BOTANY

STREAM: BED (SCIENCE) **DURATION: 3 Hours**

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INSTRUCTIONS TO CANDIDATES

i. *Answer **ALL** questions from section A and any **THREE** from section B.*

ii. *Diagrams should be used whenever they serve to illustrate the answer.*

iii. *Do not write on the question paper.*

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SECTION A (24 MARKS)

Question one

a) Outline the roles of the following parts of a flower;

i. Anther (1 Mark)

ii. Sepal (1 Mark)

iii. Ovary (1 Mark)

iv. Petal (1 Mark)

b) Name two meristems in plants (2 Marks)

c) Describe the components of a lichen (4 Marks)

d) Highlight two functions of roots in plants (2 Marks)

Question two

a) Outline any three economic importance of algae (3 Marks)

b) Describe the process of photolysis plants (3 Marks)

c) Highlight three characteristics that make bryophyta different from fungi (3 Marks)

d) Describe the glycolysis process in plants. (3 Marks)

SECTION B (36 MARKS)

Question three

a) Explain alternation of generation with respect to pteridophyta (8 Marks)

b) Discuss the role of bacteria in soil fertility (4 Marks)

Question four

a). Compare and contrast monocots and dicots (6 Mark)

b) Outline four general features of gymnosperms (4 Marks)

c) Explain how the xylem vessel is adapted to its function (2 Marks)

Question five

a) Explain how fungi obtain their food (3 Marks)

b) Give an account of evolution reproductive structures in plants (5 Marks)

c) Describe the habitat of algae (4 marks)

Question six

a). Name the reproductive structures of ferns (2 Marks)

b). Plants require carbon (IV) oxide during the day but take in oxygen during the night. Explain. (3 Marks)

c) State the general characteristics of protozoa (7 Marks)

Question seven

a). State four general characteristics division zygomycota of fungi (4 Marks)

b). Compare and contrast the structure of wind and insect pollinated flowers (8 Marks)

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