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**GARISSA UNIVERSITY**

**UNIVERSITY EXAMINATION 2019/2020 ACADEMIC YEAR FOUR**

**SECOND SEMESTER EXAMINATION**

**SCHOOL OF PURE AND APPLIEDSCIENCES**

**FOR THE DEGREE OF BACHELOR OF EDUCATION**

**COURSE CODE: BOT 400E**

**COURSE TITLE:** **MYCOLOGY AND PHYCOLOGY**

**EXAMINATION DURATION: 2 HOURS**

**DATE: 13/02/2020 TIME: 2.00-4.00 PM**

**INSTRUCTION TO CANDIDATES**

* **The examination has FIVE (5) questions**
* **Question ONE (1) is COMPULSORY**
* **Choose any other TWO (2) questions from the remaining FOUR (4) questions**
* **Use sketch diagrams to illustrate your answer whenever necessary**
* **Do not carry mobile phones or any other written materials in examination room**
* **Do not write on this paper**

**This paper consists of TWO (2) printed pages *please turn over***

**QUESTION ONE (COMPULSORY)**

1. Define the following: **[4 marks]**
2. Mychology
3. Phycology
4. Thullus
5. Hyphae
6. Distinguish between the following: **[8 marks]**
7. The prokaryotic algae and The eukaryotic algae
8. Algae and plants
9. Endozoic endosymbionts and Endophytic endosymbionts
10. Isogamy and Oogamy fusion
11. State the main categories of algae found in aquatic habitat. **[5 marks]**
12. State the photosynthetic pigments in algae. **[4 marks]**
13. List the General Characteristics of fungi. **[4 marks]**
14. List the general characteristics of algae **[5 marks]**

**QUESTION TWO**

1. DISCUSS the ecological and economic importance of fungi. **[10 marks]**
2. Describe modes of reproduction in fungi. **[10 marks]**

**QUESTION THREE**

1. Describe the processes of sexual reproduction in algae. **[10 marks]**
2. Using a suitable illustration describe the life cycle of fungi. **[10 marks]**

**QUESTION FOUR**

1. Describe the photosynthetic pigments in algae. **[10 marks]**
2. Discuss the economic importance of Algae. **[10 marks]**

**QUESTION FIVE**

Describe the unicellular and multicellular forms of algae. **[20 marks]**