****

**GARISSA UNIVERSITY**

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

**SECOND SEMESTER EXAMINATION**

**SCHOOL OF SCHOOL OF PURE AND APPLIED SCIENCES**

**FOR THE DEGREE OF BACHELOR OF EDUCATION**

**COURSE CODE: BOT 120**

**COURSE TITLE: GENERAL BOTANY**

**EXAMINATION DURATION: 2 HOURS**

**DATE: 17/12/2020 TIME: 03.00-05.00 PAM**

**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. Outline the major differences between the following. **[6 marks]**
2. Respiration and Photosynthesis
3. Gymnosperm and Angiosperm
4. Prokaryotes and Eukaryotes
5. Briefly describe the vascular system of plants; phloem and xylem. **[6 marks]**
6. With an illustration describe a flower. **[6 marks]**
7. Differentiate between primary and secondary growth in plants. **[6 marks]**
8. What are the distinguishing characteristics between Fungi and Plants **[6 marks]**

**QUESTION TWO**

1. Briefly describe the light independent and light dependent reactions of photosynthesis **[10 marks]**
2. Briefly describe aerobic respiration. **[10 marks]**

**QUESTION THREE**

1. Briefly describe fungal nutrition. **[10 marks]**
2. What are the economic significances of the kingdom Protista **[10 marks]**

**QUESTION FOUR**

Briefly describe the economic significance of fungi to medicine, agriculture, research, and industry **[20 marks]**

 **QUESTION FIVE**

1. Outline five main characteristics of bacteria **[5 marks]**
2. Describe the economic importance of bacteria **[15 marks]**