

**NOVEMBER 2023
EBS 311P
GENERAL BIOLOGY PRACTICAL III
1 HOUR**

Candidate's Index Number
Signature:

**UNIVERSITY OF CAPE COAST
COLLEGE OF EDUCATION STUDIES
SCHOOL OF EDUCATIONAL DEVELOPMENT AND OUTREACH
INSTITUTE OF EDUCATION**

**COLLEGES OF EDUCATION
FOUR-YEAR BACHELOR OF EDUCATION (B.ED)
THIRD YEAR, SECOND SEMESTER MID-SEMESTER QUIZ, NOVEMBER 2023**

21ST NOVEMBER 2023 GENERAL BIOLOGY PRACTICAL III 3:00 PM – 4:00 PM

**Answer ALL the questions.
(20 MARKS)**

Instruction: In this practical laboratory exercise you have only one activity to perform. After this activity, there is a set of questions that you are required to answer based on your understanding of the related activity.

REPRODUCTIVE PARTS OF A FLOWER

Background

Flowers' beauty and fragrance evolved not to please humans but to attract pollinators (insects or birds), which are central to the reproductive process. As a plant's reproductive part, a flower contains a stamen (male flower part) or pistil (female flower part), or both, plus accessory parts such as sepals, petals, and nectar glands.

Aim

This activity provides opportunities for students to identify the reproductive parts of a flower.

Materials

- Large simple flowers: particularly hibiscus and lily
- Needle/craft knife
- Hand lens
- Paper
- Pencil

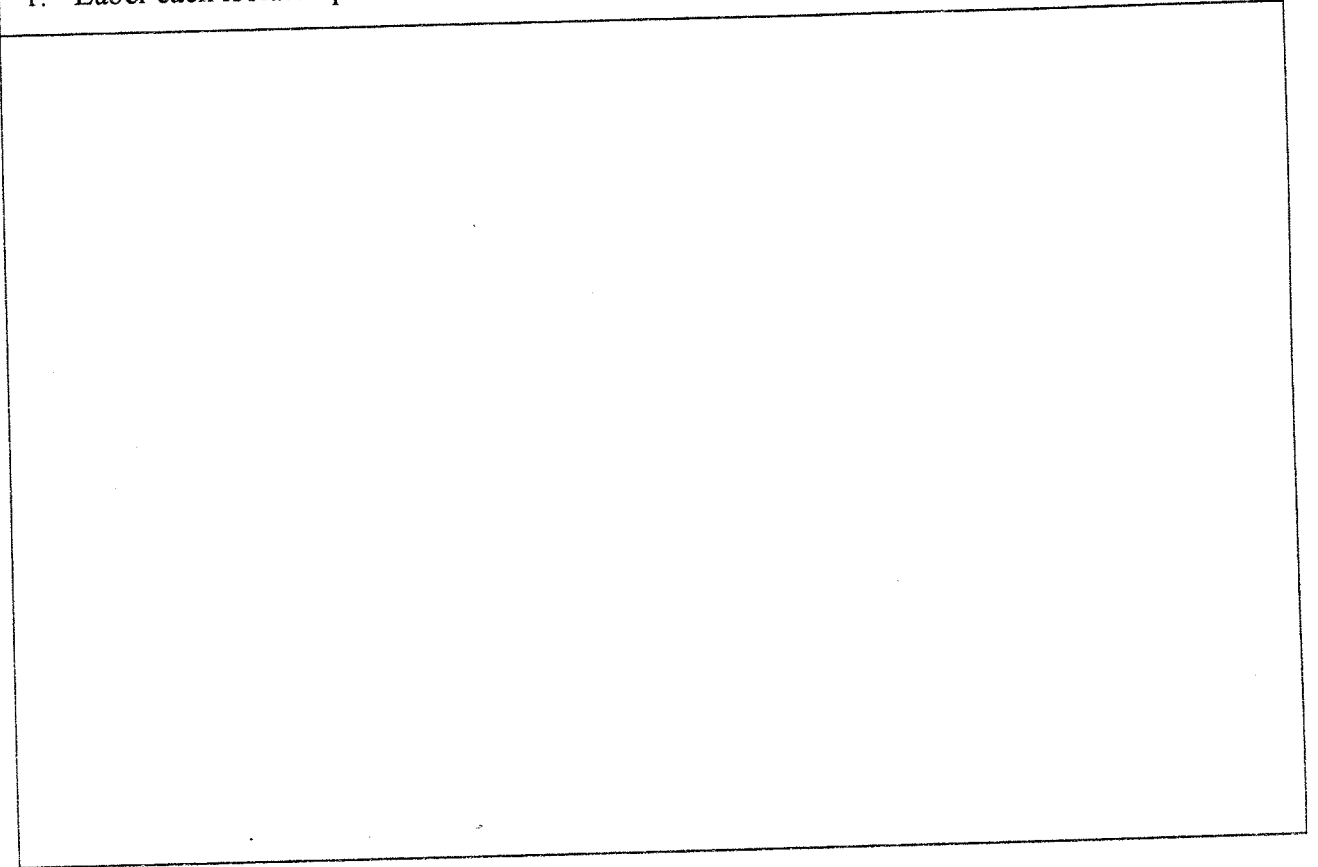
Procedure

With the help of the needle/craft knife, dissect and separate the different whorls of the flower.

QUESTIONS

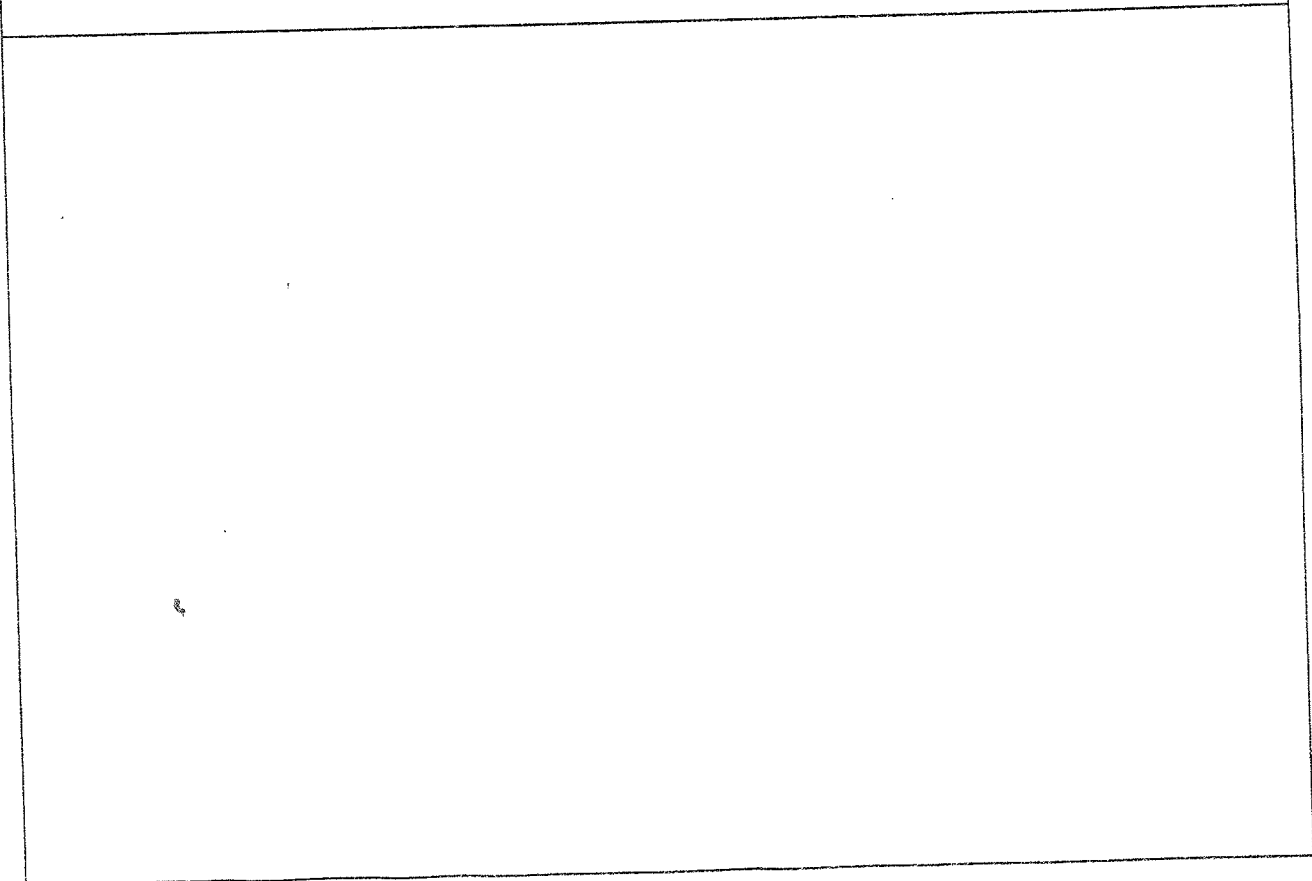
1. Label each isolated part from the outer whorl to the inner whorl.

(8 marks)



2. Draw and label the 3rd and 4th floral whorls

(6 marks)



3. What role does the 2nd whorl play in pollination? (2marks)

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4. What type of flower is hibiscus? (2marks)

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5. What would your answer in Q3 be if the flower lacks either of the 3rd or 4th floral whorl? (2marks)

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