

GURUDAS COLLEGE

B. Sc. SEMESTER - II (Honours) Examination, 2021

Subject: BOTA

CORE COURSE-3

Course: BOT-A-CC-2-3-P

Course Name: Plant Anatomy Practical

Date of Examination: 14/08/2021, 12noon

Time: 1 Hour 30 minutes

FM: 30

Answer *any three* of the following

10X3

Q1. Write down the procedure for staining anatomical section. Draw, label and comment on the anatomical features of a Dicot leaf. 4+2+1+3

Q2. Draw a labelled diagram to show cellular details of *Cucurbita* stem. Comment on its identifying features. 3+2+5

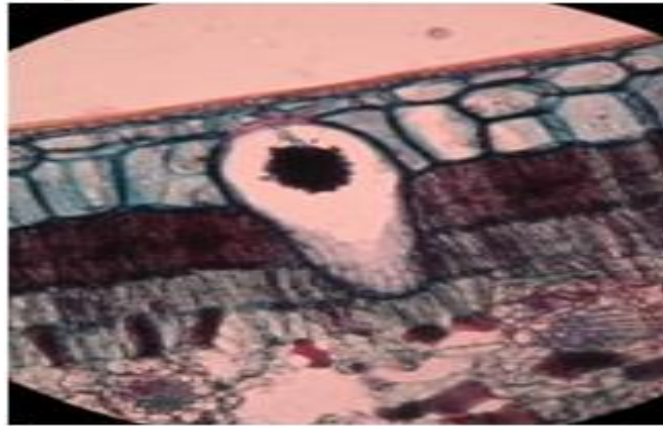
Q3. a) i) Identify the type of stomata by giving reasons.

1+1½



a) ii) Identify the specimen and comment on its characteristics.

1+1½

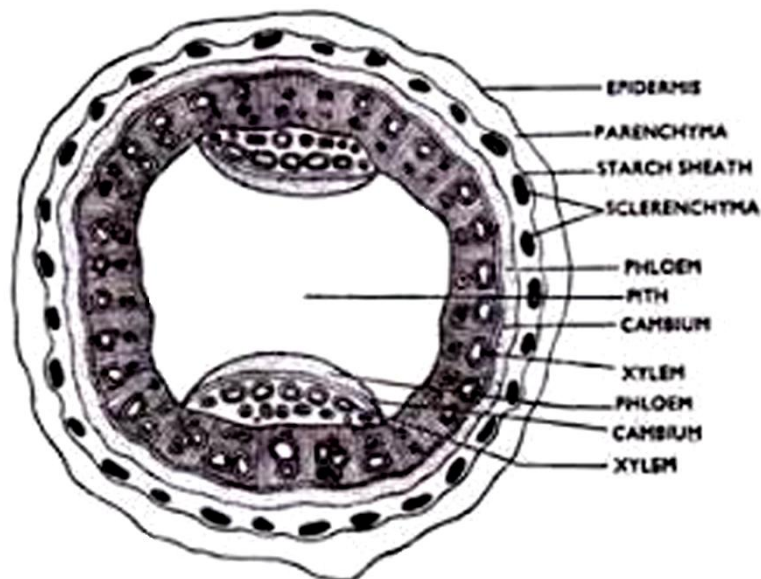


b) Growth in circumference or girth in stems and roots of plants is caused by cambium - is it a true or false statement? Comment on the adaptive anatomical features of *Nerium* leaf.

1+4

Q4. a) Comment on the anomalous secondary structures of the dicotyledonous stem t.s. in the following image.

3



b) Draw a diagrammatic picture of *Dracaena* stem section with labels and write about its anomalous structures.

2+2+3

Q5. a) In roots of dicotyledonous plants, primary cambium is absent - is it a true or false statement? Draw a diagrammatic picture of *Tinospora* root t.s. with labels and mention its anomalous structures. 1+2+2+2

b) Comment on the adaptive anatomical features of *Nymphaea* petiole. 3

Instructions for submission of answer scripts

1. Write the front page/top sheet as per instruction.
2. Scan the pages in sequence and make a single PDF file.
3. Rename file as per instruction.
4. Email the PDF file within the stipulated time to the following

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