

GURUDAS COLLEGE

B. Sc. SEMESTER III (Honours) Odd Semester Examination, 2021

Online Practical Examination

Subject: BOTA

Subject Category: Honours

CORE COURSE-7

Course: BOT-A-CC-3-7-P

Course Name: PLANT SYSTEMATICS

Date of Examination: 21th Jan, 2022

All questions carry equal marks

Full Marks – 30

Time – 1 hour & 30 minutes

1. Mention the name of the angiospermic family where carcerule is found.
Write four diagnostic characters of this family.
Write the floral formula and draw the floral diagram of any one genus
belonging to this family. 1+4+2+3

OR

Mention the name of the angiospermic family where berry is found. Write
four diagnostic characters of this family.
Write the floral formula and draw the floral diagram of any one genus
belonging to this family.

1+ 4+2+3

2. Observe the pictures and diagrams of specimen A and answer the
following questions.

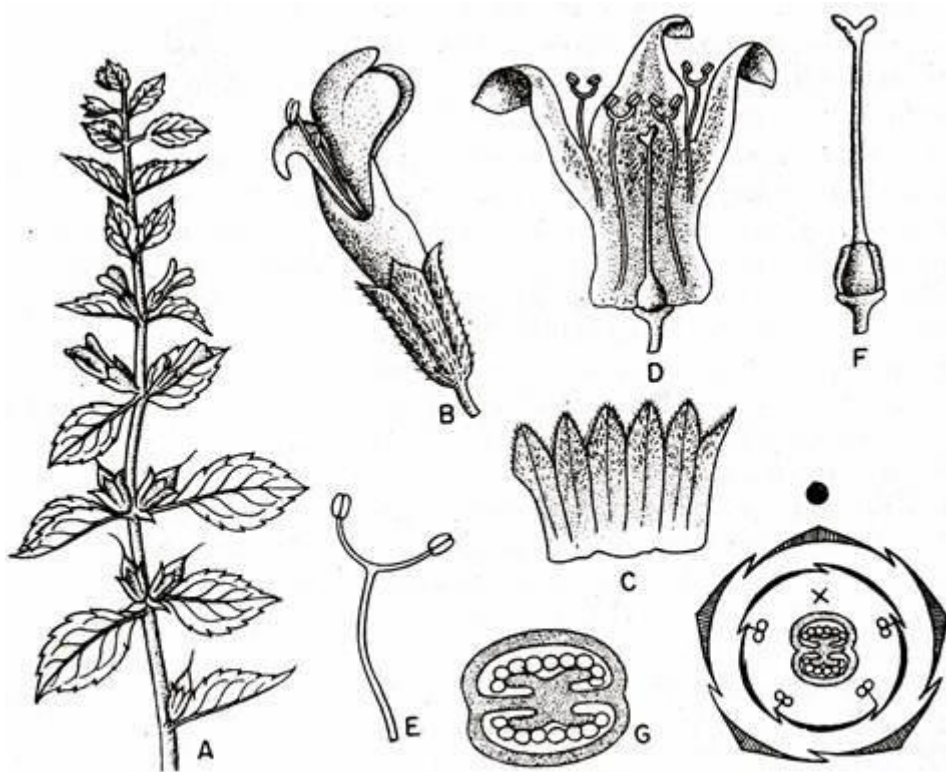


Fig. 141. *Lindenbergia indica* (L.) O.Ktze. A. Leafy branch with flowers ($\times \frac{1}{2}$); B. Flower ($\times 3$); C. Calyx opened out; D. Corolla split open to show stamens and ovary; E. Stamen with divaricate anther; F. Ovary with style and stigma; G. T.s. of ovary.

SPECIMEN A

- | | |
|---|-------|
| a. Mention the phyllotaxy in Specimen A? | 1 |
| b. Is the flower complete or incomplete? | 1 |
| c. Is the flower bracteate or ebracteate? | 1 |
| d. Is the flower actinomorphic or zygomorphic? | 1 |
| e. How many sepals are present? Are they polysepalous? | 1 + 1 |
| f. Identify the form of corolla. | 1 |
| g. Is there cohesion or adhesion of stamens? State another feature of the androecium. | 1 + 1 |
| h. Mention the type of placentation. | 1 |

3. Mention the scientific name and family of Specimen B, C, D, E and F.

(1+1) X 5



SPECIMEN 'B'



SPECIMEN 'C'



SPECIMEN 'D'



SPECIMEN 'E'



SPECIMEN 'F'

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
5. Email ID

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