

**GURUDAS COLLEGE**  
**DEPARTMENT OF BOTANY**  
**ONLINE INTERNAL EXAMINATION, 2020**  
**BOTANY — HONOURS**  
**B. Sc PART-II (1+1+1)**  
**Paper: IV A**  
**(Full Marks -25)**

**Date of the Examination: 8<sup>th</sup> Dec, 2020**

*The figures in the margin indicate full marks*  
*Candidates are required to give their answers in their own words as far as practicable*

1. Answer any two of the following questions: 25X2
- 1a. Describe the types of special cymose inflorescence with diagrams and examples 20
- 1b. Name five corolla forms in angiosperm and also give examples where they are found. 5
- 2 a. Write down the Principles of ICBN. 12
- 2b. Distinguish between artificial, natural and phylogenetic classification. Which system is preferred nowadays? Give examples of each. 9+1+3
- 3a. Give the diagnostic characters of Solanaceae with diagrams. Name two economically important plants from the family and mention their use and parts of the plant used. 10 + (2.5 X 2)
- 3b. Describe the different placentation types with diagrams. 10

4a. Compare the floral morphology of Lamiaceae and Malvaceae with diagrams. Write down the floral formula for each family. 12 + 4

4b. Describe the different types of simple dehiscent fruits. 9

5a. Describe the Phases of Taxonomy. 12

5b. Describe Cronquist's (1988) system of classification with merits and demerits. 13

### **Instructions for submission of answer scripts**

1. Write the front page/top sheet as per instruction. Give page numbers to each page.
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 **honsbotanygurudacollege@gmail.com** and also give CC email to **botanygurudacollege@gmail.com** and **gdccug20@gmail.com**

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1. Answer all questions

4 X4

a. Identify the following with reasons



b. Identify the following with reasons



c. Identify the inflorescence type with reasons



d. Identify the inflorescence type with reasons



2. Identify the following specimens. Write the binomial and family

1.5 X 4

i.



ii.



iii.



iv



3. Name the largest botanical garden in India. 1
4. Write down the floral formula of Malvaceae. 2

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