

GURUDAS COLLEGE

DEPARTMENT OF BOTANY

ONLINE INTERNAL EXAMINATION, 2020

BOTANY — HONOURS

B. Sc PART-I (1+1+1)

Paper: II A

Full Marks: 50

Date of examination: 10th December, 2020

The figures in the margin indicate full marks

Candidates are required to give their answers in their own words as far as practicable

Group A

- A. Answer any two (2) questions from the following. 20 X 2
1. Answer the following 4x5
- i. Enumerate the role of bryophyte in plant succession.
 - ii. Describe the spore dispersal mechanism in *Funaria*.
 - iii. Write a short note on megafossils of Indian lower Gondwana.
 - iv. Write briefly on Melissopalynology.
2. Answer the following 4x5
- i. Discuss different conditions of fossilization process.
 - ii. Write a note on 'Importance of fossil study'.
 - iii. Write the diagnostic features of Hepaticopsida.
 - iv. Describe the sporophytic plant body of *Marchantia*.
3. Answer the following 4x5
- i. Distinguish between spore and pollen grain.

- ii. Write a short note on NPC classification.
 - iii. Write a note on 'Homologous theory' of the origin of alternation of generations in bryophytes.
 - iv. Write the role of bryophyte on pollution monitoring.
4. Answer the following 4x5
- i. Write short note on 'Index fossil'.
 - ii. Classification (Proskauer 1957) of bryophytes upto class.
 - iii. Discuss the roles of pollen grain in forensic investigation.
 - iv. Describe the gametophytic plant body of *Anthoceros*.

Group B

- B. Answer any one (1) question from the following 1x10
- i. Describe the process of nuclear type of endosperm development.
 - ii. Write a note on 'Polyembryony'
 - iii. Discuss the process of megasporogenesis.
 - iv. Distinguish between monosporic and tetrasporic embryo sac developmental process.

Instructions for submission of answer scripts

1. Write the front page/top sheet as per instruction. Give page numbers on each page.
2. Scan the pages in sequence and make a two PDF files one for Paper II and another PDF file for Paper III.
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**