

Date and time of exam: 14/12/2020; 11.00am – 3.00 pm

CITY COLLEGE

INTERMEDIATE EXAMINATION FOR 1+1+1 SYSTEM (ONLINE), 2020

DEPARTMENT OF BOTANY

PART: I, Paper 2A & 2B, Course: B.Sc. (Hons.), Full marks: 50

Paper: 2A (Theory)

1. Answer the following questions: (Any two) **2X20=40**
- a) Draw and describe the morphological structure (internal) of *Anthoceros sp* sporophyte or *Marchantia* sporophyte. **20**
- b) Distinguish between microfossil and megafossil. Discuss in brief the different modes of preservation (Schopf, 1975) with suitable examples. Write a note on conditions favouring fossilization. **(4+10+6)**
- c) Describe briefly about the types of endosperm development in angiosperms. Discuss briefly about the pollen – ovule ratio. **(12+10)**
- d) Distinguish between spore and pollen. Describe in brief with suitable diagrams the different pollen aperture types found in angiosperms. **(4+16)**
2. Answer the following questions: (Any one) **1X10=10**
- a) Write a note on significance of Melissopalynology and Forensic palynology. **5+5**
- b) Write a note on Ecological importance of bryophytes on plant succession. (four fields only) **10**
- c) State the advanced nature of sporophyte of *Anthoceros sp.* (five points only). **10**
- d) Write a note on double fertilization and its significance. **10**

Paper: 2B (Practical)

Answer the following Questions: (Any five)

5X10= 50

1. Write down the characteristic features of thallus and reproductive structures of *Ectocarpus sp.*
2. Draw free hand drawing of reproductive structures of Nannandrous sp of *Oedogonium sp.*
3. Write down the identifying characters of *Vaucheria sp.*
4. Write down the identifying characters of Fruiticose and Foliose lichen.
5. Draw reproductive structures of *Agaricus sp.* (sectional view).
6. Write the identifying characters of *Penicillium sp.*
7. Write the identifying characters of L.S.of Capsule of *Funaria sp.*
8. Write down the general characters of morphology of *Riccia sp.*

Email id for answer script submission (a single pdf file):

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