

Date & time of the Exam. 14/12/2020, 11.00am-03.00pm

## **CITY COLLEGE**

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

### **DEPARTMENT OF BOTANY**

**Part: II, Paper- IVA & B, Course: Honours, Full Marks: 25**

#### **Paper: IVA (Theory)**

**A. Answer the following questions: (Any two) 2x10=20**

1. Write the Merit and Demerit characters of Bentham and Hooker system of classification (1862-1883). 10
2. Write the comparison between Solanaceae and Labiatae family. 10
3. Write the primitive characters of Magnoliaceae and advanced characters of Compositae. 10
4. What is nomenclatural type? Write the different types of nomenclatural type. 8+2=10

**B. Answer the following questions (Any one)**

1. Write the different types of Cohesion of stamens. 5
2. What is alpha and omega taxonomy? What is phenetics and cladistics? What is apomorphy? 2+2+1=5

#### **Paper: IVB (Practical)**

**Answer the following questions:**

1. Draw and label the sporophytic plant body of *Marsilea*. 5

OR

What types of reproductive structures are found in *Lycopodium*, *Selaginilla*, *Psilotum*, *Ophioglossum*, *Marsilea* and *Pteris*. 5

2. Write the floral characters of *Sida* sp. with proper diagram. . Write the identifying characters of family. Write the floral diagram of this plant.  $10+2+3=15$

OR

Write the floral characters of *Hyptis* sp. with proper diagram. Write the identifying characters of family. Write the floral diagram of this plant.  $10+2+3=15$

3. Describe the Capitulum or Verticillaster inflorescence with an example and proper diagram.

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**Email id for answer script submission (a single pdf):-  
botanycity.p2hons@gmail.com**