

# B.B.M. COLLEGE, BALIAPUR, DHANBAD

Internal Exam – 2024  
(Session 2020-23/2021-24)

## SEMESTER – I to IV

### Special Exam

Class – B.Sc. (Botany)  
Sub. – GE Paper -II

Time –  
F.M. – 20 each Sem.

### SEMESTER – I

#### Answer any two question

Time – 1 Hr

F.M. - 20

1. Draw well labeled diagram of bacterial cell.
2. Write economic importance of Gymnosperm.
3. Explain life cycle of chara.
4. Write structure and reproduction of marchantia.

#### **Practical -**

- (1) models of viruses

### SEMESTER – II

#### Answer any two question

Time – 1 Hr

F.M. - 20

1. Write down adaptive features of hydrophytes.
2. Write causes and impact of water pollution.
3. Give principals of classification given by Hutchinson.
4. Write diagnostic characters and economic importance of family poaceae.

#### **Practical -**

- (1) floral characters of the family Apocynaceae with floral diagram , floral formula.

### SEMESTER – III

#### Answer any two question

Time – 1 Hr

F.M. - 20

- (1) describe anomalous secondary growth in dracaena .
- (2) describe structure and function of endosperm .
- (3) write botanical names, family and uses of the following .  
Tulsi , cotton, gram, shisham and mustard
- (4) Give an account of polyembryony

#### **Practical -**

- (1) Embryo dissection .

### SEMESTER – IV

#### Answer any two question

Time – 1 Hr

F.M. - 20

- (1) illustrate the step involved in glycolysis process
- (2) provide an account of Calvin cycle with the help of flow diagram mentioning the enzymes involved.
- (3) discuss the principle and applications of plant tissue culture.
- (4) with diagram describe the different stages of mitoses cell division in a plant cell.

#### **Practical -**

- (1) Metaphase of mitosis