

**B.B.M. COLLEGE BALIAPUR**

**DHANBAD**

**Internal Exam – 2022**

**SEMESTER – IV**

**Class – B.Sc. (Hons)                      Time – 1hr**

**Sub. – Botany Core (8)                      F.M. – 15**

**Molecular Biology**

Answer any two of following question -

1. Describe clearly the water and crick model of DNA
2. What is genetic code? Discuss the properties of Genetic code.
3. Describe the mechanism of DNA replication in Prokaryotes.
4. Special reference to lac operon. Special reference to lac operon.
5. Write short notes on any two of the following.  
(a) Nucleosomes (b) types of Nucleic acid.  
(c) DNA damage and repair mechanism.

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**Sub. – Botany Core (9)                      F.M. – 15**

**Plant Ecology and Phytogeography**

Answer any two of following question –

1. Describe the various types of Ecological pyramids.
2. What is biogeochemical cycle?
3. Describe phytogeographical region of India.
4. Describe the process of Energy flow in a Terrestrial Ecosystem.
5. Write short Notes on any two of the following.  
(a) food chain (b) Hydrosere  
(c) Energy flow

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**Sub. – Botany Core (10)                      F.M. – 15**

**Systematic Botany**

Answer any two of following question –

1. Give a brief account of Bentham and Booker's System of classification of flowering plants mention its merits and demerits.
2. Describe the characteristic features of family Apocynaceae And mention its economic importance.
3. Describe principles and rules of botanical nomenclature.
4. Name various botanical gardens of the world and describe any two botanical gardens of India.
5. Write short notes on any two of the following.  
(a) Herbarium (b) typification  
(b) Binomial nomenclature.

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**SEMESTER – IV**

**Class – B.Sc (GE/GEN)            Time – 1hr**

**Sub. – Botany                        F.M. – 15**

Answer any two of following question -

1. Describe the characteristics features of family Apocynaceae and mention its economic importance.
2. What is air or water pollution ? discuss its main sources , effects and control.
3. What are the types of ecosystem ? Describe the different types of ecosystem.
4. Give a broad outline of Hutchinson's system of classification of angiosperms and discuss its merits and demerits.
5. Write short note on any two of the following  
(a) Food chain (b) Herbarium  
(c) Energy flow