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**PGIS-205 A-21**  
**M.Sc. I Semester Degree Examination**  
**BOTANY**  
**Algae, Fungi, Bacteria And Viruses**  
**Paper : BOT:HCT-1.1**

**Time : 3 Hours**

**Maximum Marks : 80**

**Instructions to Candidates:**

- 1) Answer any **Five** questions.
- 2) Question No.1 is **compulsory**.

**Answer in One or Two sentences:**

**(10×2=20)**

1. a) M.O.P Iyengar.  
b) Phycoerythrin.  
c) Heterocyst.  
d) Ascospores.  
e) Arbuscular mycorrhiza.  
f) Biocontrol agent.  
g) Nucleoid.  
h) *Sinorhizobium meliloti*.  
i) Capsid.  
j) *Elaviroid*.
2. Write an account on the algal pigments and their importance in classification. **(15)**
3. Write an account on heterothallism and parasexuality in fungi. **(15)**
4. Write an account on importance of bacteria in agriculture. **(15)**
5. Write an account on structure and chemical composition of double strand DNA viruses. **(15)**
6. Write short notes on any **Three** of the following: **(3×5=15)**
  - a) Edible algae.
  - b) Homothalism in fungi.
  - c) Importance of bacteria in industry.
  - d) Structure of bacteriophage.

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**PGIS-207 A-21**  
**M.Sc. I Semester Degree Examination**  
**BOTANY**  
**Plant Systematic and Phytogeography**  
**Paper : BOT HCT-1.3**

**Time : 3 Hours**

**Maximum Marks : 80**

*Instructions to Candidates:*

- 1) Answer any **Five** questions.
- 2) Question No.1 is **compulsory**.

**Answer in any One or Two sentences:**

**(10×2=20)**

1.
  - a) Carolus linnaeus.
  - b) Botanical Gardens.
  - c) Principle of priority.
  - d) Magnoliaceae.
  - e) ICBN
  - f) Floras
  - g) Plate tectonics
  - h) Wills theory
  - i) Effective publication.
  - j) Panthalasa.
2. What is Herbarium? Give an account of different herbarium of the world. **(15)**
3. Explain rules and recommendation of plant Nomenclature. **(15)**
4. What is phytogeography? Explain different phytogeographical regions of India. **(15)**
5. Discuss in detail the distribution and migration plant. **(15)**
6. Write short notes on any **Three** of the following: **(3×5=15)**
  - a) Botanical survey of India.
  - b) Characteristics of Lorantraceae.
  - c) Origin of islands.
  - d) Theory of tolerance.