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**SIS-N 060 B-15**  
**B.Sc. Ist Semester Degree Examination**  
**BOTANY**  
**(Diversity Of Microbes And Algae)**  
**Paper : 01**  
**(New)**

Time : 3 Hours

Maximum Marks : 80

*Instructions to candidates:*

- 1) *Answer all the questions*
- 2) *Diagram will enhance the value of answers.*

**I. Answer any Ten from the following in two or more sentences**

**(10×2=20)**

- 1) What is Plasmid
- 2) Name the pigments present in Brown algae
- 3) Define Anisogamy.
- 4) Draw labelled diagram of Volvox Cell
- 5) Name the Pathogen causing Angular leaf spot of cotton and mention one Control measure.
- 6) What is Gongrosira stage? Give an example.
- 7) Differences Viroid and Prions.
- 8) What is diatomaceous earth? Mention one of its use.
- 9) What are Endophytic algae? Give example
- 10) What is Trichoblast?
- 11) What are Pyrenoids?
- 12) Expand PPLO. Mention the disease caused by PPLO.

**II. Answer any Four of the following.**

**(4×5=20)**

- 13) Describe the contribution of Louis Pasteur
- 14) Describe the symptoms and control measures of Bunchy top of Banana
- 15) Explain Sexual reproduction of Volvox
- 16) Define Macrandrous and Nannandrous species of Oedogonium
- 17) Write living and non living characteristics of viruses
- 18) Describe structure of Anabaena.

**III. Answer any four of the following**

**(4×10=40)**

- 19) Describe Aim and Scope of Microbiology.
- 20) Write notes on
  - a) Mycoplasma
  - b) Structure of TMV.
- 21) Write economic importance of Bacteria
- 22) Describe the life cycle of Vaucheria
- 23) Explain the Lytic cycle of Bacteriophage
- 24) Describe the structure of
  - a) Carposporophyte
  - b) Female Conceptacle of Sargassum.