

Roll No. \_\_\_\_\_

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**SIS-N-060 B-19**  
**B.Sc. I Semester (CBCS) Degree Examination**  
**BOTANY**  
**Bio Diversity of Microbes, Algae, Fungi and Archegoniate**  
**Paper - CC - BOT - I**  
**(New)**

**Time : 3 Hours**

**Maximum Marks : 80**

**Instructions to Candidates:** 1) Answer All questions.  
2) Draw diagrams wherever necessary.

**I. Answer any TEN of following questions in two or more sentences : (10×2=20)**

- 1) What are viruses? Who discovered them?
- 2) What is heterocyst? Mention its significance.
- 3) What is wanderplasm? Where is it found?
- 4) What is diatomaceous earth? Mention its two applications.
- 5) What is a siphm? Mention its types.
- 6) What are Lichens? Mention their types.
- 7) What are obligate and facultative parasites?
- 8) What are true fungi? Give examples.
- 9) What is a siphonostele? Give example.
- 10) What are peristome teeth? Where is it found?
- 11) What are paraphysics? Give example.
- 12) What is amber? Write its application.

**II. Answer any FOUR of the following questions: (4×5=20)**

- 13) Describe the structure of T<sub>4</sub> bacteriophage.
- 14) Describe the living and Non-living characters of viruses.
- 15) What are apical caps? Describe the process of formation of apical caps.
- 16) What is myccorhiza? Add a note on ectomyccorhiza?
- 17) What is heterospory? Add a note on seed habit in pteridophytes?
- 18) Diagrammatically describe the T.S. of Marchantia thallus.

**III. Answer any FOUR of the following questions:**

**(4×10=40)**

- 19) Describe the various types of reproduction in bacteria.
- 20) Discuss in detail the life cycle of polysiphonia. Add a note on economic importance of Algae.
- 21) Describe the general characters and Economic importance of Fungi.
- 22) Diagrammatically describe the L.S. of Anthoceros sporophyte.
- 23) With a neat labelled diagram describe the T.S. of equisetum stem.
- 24) Add a critical note on:
  - a. Gnetum ovule.
  - b. Economic importance of Gymnosperms.

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