



27124(New)

B.Sc. I Semester Degree Examination, Nov./Dec. - 2018

**BOTANY**

**Viruses, Bacteria, Cyanobacteria, Algae, Fungi, Lichens and Plant Pathology**

**Paper - I**

**(New)**

Time : 3 Hours

Maximum Marks : 60

**Instructions to Candidates:**

1. Part-A is compulsory.
2. Part-B Answer any FIVE questions.

**PART - A**

Answer the following questions.

(10×1=10)

1. Name the pigments of rhodophyceae.
2. What are metulae?
3. What are symbiotic bacteria? Give example.
4. What is cleistothecium? Give example.
5. Define thallus.
6. What are kelps?
7. What are pyrenoids? Give example.
8. What are isidia?
9. What is heteroecious fungus?
10. What are facultative saprophytes?

**PART - B**

Answer any FIVE of the following:

1. a) With labelled diagrams explain sex organs of chara. (6)
- b) Describe the structure of bacterial cell with diagram. (4)

[P.T.O.]



(2)

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2. a) Write the pathogen, symptoms and control measures grains smut of jowar. (6)  
b) Explain asexual reproduction in cercospora. (4)
  3. a) With labelled diagram explain the structure of scytonema. (5)  
b) Explain transduction. (5)
  4. a) Write a note on useful aspects of algae. (5)  
b) Explain the V.S. of apothecium in lichen with labelled diagram. (5)
  5. a) Explain asexual reproduction in Albugo. (5)  
b) With a suitable diagram explain male conceptacle in sargassum. (5)
  6. a) Explain with diagrams the spores produced by dikaryotic mycelium. (5)  
b) Write general characters of viruses. (5)
  7. Give a detailed account of Alexopoulos system of classification of fungi. (10)
  8. With suitable diagrams explain the structure and sexual reproduction in volvox. (10)
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