Exam. Code : 103201

Subject Code:

## B.A./B.Sc. Ist Semester

## **BOTANY**

## Paper-IA

## (Diversity of Microbes)

Time Allowed—3 Hours]

[Maximum Marks—35

Note: — Attempt FIVE questions in all. Question No. 1 is compulsory. Each question carries 7 marks.

- Give short answers (3-4 lines) to each of the following:
  - Differentiate between the uredospore and teleutospore (a) of Puccinia.
  - Why are cyanobacteria considered as (b) prokaryotes?
  - Name any two genera which yield agar-agar. (c)
  - Name any two lichens and give their economic (d) importance.
  - Comment on the nucleic acids of viruses. (e)
  - What do you understand by Coenobium? (f)
  - Give the scientific binomial name of brewer's and (g) baker's yeast.

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(Contd.)

1

- Describe thallus organisation, pigment types, reserve food and economic importance of the members of the following algal classes: (a) Chlorophyceae

  - (b) Rhodophyceae.
- Give detailed account of reproduction and economic 3. importance of bacteria.
- Write short notes on the following: 4.
  - Cleistothecium of Eurotium
  - Perithecium of Chaetomium.
- How do viruses differ from bacteria? Describe the structure 5.
- and replication of any virus that you have studied.

Draw the structure of the following genera:

6.

- (a) Volvox
- Vaucheria (b)
- (c) Ectocarpus
- (d) Sargassum
- (e) Polysiphonia
- Coleochaete. . (f)

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2

(Contd.)

To which class do the following genera belong and

8. 9.

(a) Puccinia

why?

(f)

(g)

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- (b) Cercospora
- (d) Agaricus

(c) Colletotrichum

- (e) Pythium
  - Mucor.

Peziza

- Describe important features and life history of
- Phytophthora. Why is this genus important?
- (a) Life history of Vaucheria

Write briefly on the following:

- (b) Life history of Polysiphonia.

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3