http://www.gnduonline.com Exam. Code: 103201

Subject Code: 1287

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

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- 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 importance of bacteria.
- 4. Write short notes on the following:
 - (a) Cleistothecium of Eurotium
 - (b) Perithecium of Chaetomium.
- 5. How do viruses differ from bacteria? Describe the structureand replication of any virus that you have studied.
- 6. Draw the structure of the following genera:
 - (a) Volvox
 - (b) Vaucheria
 - (c) Ectocarpus
 - (d) Sargassum
 - (e) Polysiphonia
 - (f) Coleochaete.

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- 7. To which class do the following genera belong and why?
 - (a) Puccinia
 - (b) Cercospora
 - (c) Colletotrichum
 - (d) Agaricus
 - (e) Pythium
 - (f) Peziza
 - (g) Mucor.
- 8. Describe important features and life history of *Phytophthora*. Why is this genus important?
- 9. Write briefly on the following:
 - (a) Life history of Vaucheria
 - (b) Life history of Polysiphonia.