27124(Old)

B.Sc. I Semester Degree Examination, February/March- 2023

BOTANY (Old)

Viruses, Bacteria, Cyanobacteria, Algae, Fungi, Lichens and plant Pathology

Paper : 1.1

Time : 3 Hours **Maximum Marks : 60**

Instructions to Candidates :

1. Part - I is compulsory.
2. Part - II answer any **five** full questions.
3. Labelled diagrams will enhance the value of the answer.

PART - I

I. Answer **ALL** questions. **(10×1=10)**

1. What is apical cap?
2. What are sea weeds?
3. Name the photosynthetic pigment in BGA.
4. Define thallus.
5. What are amylum starch?
6. What is cystocarp?
7. What are Zoospores?
8. Agar - agar.
9. Sterigmata.
10. Write the systematic position of scytonema.

PART - II

II. Answer any **FIVE** full questions. **(5×10=50)**

11. a. Write the general characters of viruses. **(6)**

    b. Explain the symptoms, casual organisms, and control measure of citrus canker. **(4)**

12. a. Write an account on structure of Gloeotrichia. **(6)**

    b. Explain the bacterial cell structure. **(4)**

[P.T.O.

13. a. Explain the asexual reproduction in vaucheria. **(5)**

b. Describe the pigments in algae. **(5)**

14. a. Describe the symptoms, casual organisms and control measures of Grain smut of sorghum. **(5)**

b. Explain the asexual reproduction in cercospora. **(5)**

15. a. Write the general characters of fungi. **(5)**

b. Describe the economic importance of lichens. **(5)**

16. a. Explain Plasmid structure. **(5)**

b. Explain the conjugation process. **(5)**

17. Describe the thallus organization of algae. **(10)**

18. Give a detail account on economic importance of bacteria. **(10)**

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11125(Old)

B.Sc. I Semester Degree Examination, Oct./Nov. - 2019

BOTANY

Diversity of Microbes and Non Vascular Plants, Microbiology Viruses, Mycoplasma Bacteria

Paper - 1.1

(Old)

Time : 3 Hours **Maximum Marks : 80**

Instructions to Candidates:

1) Part - I is compulsory.
2) Part - II answer any **Four** questions.
3) Labelled diagram enhance the value of answer.

PART - I

I. Answer the following questions. **(8×2=16)**

1) Name male & female sex organ in chara.
2) Mention the photosynthetic pigments in Rhodophyceae.
3) What are Nitrogen fixing bacteria? Give example.
4) Draw a neat and labelled diagram of sex organ of vaucheria.
5) Give the systematic position of polysiphonia .
6) What are hormogonia? Mention the functions.
7) What are kelps? Mention the uses.
8) Name any two plant diseases of Virus.

PART - II

II. Answer any **FOUR** of the following. **(4×4=16)**

9) Write B.G.A. role in Agriculture.
10) Explain about Bacteriophage.
11) Write about Tetrasporophyte.
12) Describe the morphology structure and method of reproduction Gloeotrichia.
13) Explain contribution of Leeuwenhoek.
14) Describe reproduction in cosmarium.

[P.T.O.

PART - III

III. Answer any **SIX** of the following. **(6×8=48)**

15) Explain the thallus of scytonema and write the reason for false branching.

16) Describe the myco plasma cell structure and sandle spike disease.

17) Describe cell structure of Diatoms and write a note on cell division.

18) Discuss the characteristic feature of vaucheria. Explain its sexual reproduction.

19) Write an essay on the economic importance of algae.

20) Describe the structure of Tobacco mosaic virus, add a note on multiplication.

21) Explain the role of bacteria in industries and agriculture.

22) Describe the formation of daughter colony in Volvox.

27124(New)

B.Sc. I Semester Degree Examination, March/April - 2021

BOTANY

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

Paper - I (1.1)

(New)

Time : 3 Hours **Maximum Marks : 60**

Instructions to Candidates:

1. Part - A is **compulsory.**
2. Labelled diagram will enhance the value of answer.

PART - A

Answer the following. **(10×1=10)**

1) What is 'nif' gene? Write significance.

2) What are androspores?

3) Name the photosynthetic pigments of Rhodophyceae.

4) What are slime molds?

5) What are auxospores?

6) What is coenocytic hypha? Give example.

7) Define dikaryotization.

8) What is nannandrous species?

9) What is plasmid?

10) What are biofertilizers?

PART - B

Answer any **Five** of the following.

1. a) With the help of labelled diagram explain Gloeotrichia thallus. **(06)**

b) Describe male conceptacle of Sargassum with labelled diagram. **(04)**

[P.T.O.

2. a) Give a detailed account of algal pigments. **(06)**

   b) Give a general account of asexual reproduction in Albugo with labelled diagram. **(04)**

3. a) Write briefly about the spore types of Puccinia on wheat. **(05)**

   b) With the help of labelled diagram describe asexual reproduction in Volvox. **(05)**

4. a) Describe the structure of bacteriophage with a labelled diagram. **(05)**

   b) Write a note on transduction. **(05)**

5. a) Explain globule and nucule of chara with labelled diagram. **(05)**

   b) Give a detailed account of positive role of _____ bacteria. **(05)**

6. a) Write a note on general account of Lichens. **(05)**

   b) Write pathogen, symptoms and control measures of Red gram. **(05)**

7. Give a detailed account of Fritsch's system of classification of algae. **(10)**

8. Write an essay on the economic importance of fungi. **(10)**

27124(New)

B.Sc. I Semester Degree Examination, Oct./Nov. - 2019

BOTANY

Viruses, Bacteria, Cyanobacteria, Algae fungi, Lichens and Plant Pathology

Paper - I (1.1)

(New)

Time : 3 Hours Maximum Marks : 60

Instructions to Candidates:

1) Part-A is compulsory.
2) Part-B answer any **five** questions.
3) Labelled diagram will enhance the value of answer.

PART-A

Answer the following questions. **(10×1=10)**

1. What is Coenobium?
2. What are cyanophages?
3. What are auxospores?
4. What are harmogonia?
5. What are vectors?
6. What are soredia?
7. What is tikka disease? Mention pathogen.
8. What are nannadrous species?
9. What is conjugation?
10. Name the photosynthetic pigments of cyanophyceae.

PART-B

Answer any **FIVE** of the following. **(5×10=50)**

1. a) Describe the bacteriophage. **(6)**
b) Harmful activities of bacteria. **(4)**
2. a) Write the pathogen, symptoms and control measures of red rot of sugar cane. **(6)**
b) Explain asexual reproduction in pencillium. **(4)**

[P.T.O.

3. a) Explain false branching process in scytonema. (5)
   b) Explain plasmid structure. (5)

4. a) Explain V.S. of female conceptacle of Sargassum (5)
   b) Explain vaucheria thallus structure. (5)

5. a) Explain types of Lichens thallus. (5)
   b) Harmful activities of fungi. (5)

6. a) Explain sex organs of chara. (5)
   b) Explain sexual reproduction in Albugo candida. (5)

7. Explain life cycle of puccinia on wheat plant. (10)

8. Explain sexual reproduction in Oedogonium (Macrandrous) (10)

27124(New)

B.Sc. I Semester Degree Examination, Oct./Nov. - 2019

BOTANY

Viruses, Bacteria, Cyanobacteria, Algae fungi, Lichens and Plant Pathology

Paper - I (1.1)

(New)

Time : 3 Hours Maximum Marks : 60

Instructions to Candidates:

1) Part-A is compulsory.
2) Part-B answer any **five** questions.
3) Labelled diagram will enhance the value of answer.

PART-A

Answer the following questions. (10×1=10)

1. What is Coenobium?
2. What are cyanophages?
3. What are auxospores?
4. What are harmogonia?
5. What are vectors?
6. What are soredia?
7. What is tikka disease? Mention pathogen.
8. What are nannadrous species?
9. What is conjugation?
10. Name the photosynthetic pigments of cyanophyceae.

PART-B

Answer any **FIVE** of the following. (5×10=50)

1. a) Describe the bacteriophage. (6)
   b) Harmful activities of bacteria. (4)
2. a) Write the pathogen, symptoms and control measures of red rot of sugar cane. (6)
   b) Explain asexual reproduction in pencillium. (4)

[P.T.O.

3. a) Explain false branching process in scytonema. (5)
   b) Explain plasmid structure. (5)

4. a) Explain V.S. of female conceptacle of Sargassum (5)
   b) Explain vaucheria thallus structure. (5)

5. a) Explain types of Lichens thallus. (5)
   b) Harmful activities of fungi. (5)

6. a) Explain sex organs of chara. (5)
   b) Explain sexual reproduction in Albugo candida. (5)

7. Explain life cycle of puccinia on wheat plant. (10)

8. Explain sexual reproduction in Oedogonium (Macrandrous) (10)

11125 (Old)

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

BOTANY

Diversity Of Microbes And Non-Vascular Plants, Microbiology Viruses, Mycoplasma Bacteria, Cyanobacteria And Algae

Paper-1.1

(Old)

Time : 3 Hours Maximum Marks : 80

Instructions to Candidates:

1. Part-I is **compulsory.**
2. Part-II Answer any **TEN** questions.

PART - I

I. Answer the following in brief. **(8×2=16)**

1. Define thallus. Mention types.
2. What are Kelps? Write the uses.
3. What are hormogonia?
4. What are Viroids?
5. Name the Pathogen and write the symptoms of green ear disease.
6. What is coenocytic thallus? Give example.
7. Write the pigments of rhodophyceae.
8. Draw a neat labelled diagram of Cosmarium.

PART - II

II. Answer any **FOUR** of the following. **(4×4=16)**

9. Describe the structure of TMV with labelled diagram.
10. With diagram explain asexual reproduction in volvox.
11. Explain the structure of Oscillatoria.
12. Write a note on Sandal spike disease.
13. With a diagram describe the structure of polysiphonia cystocarp.
14. Give a brief account of economic importance of bacteria.

[P.T.O.

III. Answer any **SIX** of the following : **(6×8=48)**

15. Explain the thallus structure of Scytonema with labelled diagram and add a note on reasons for false branching.
16. With suitable diagrams explain the sex organs of chara.
17. Describe the structure of diatom cell and write a note on cell division.
18. Give a detailed account of the contributions of Louis Pasteur and Leeuwenhoek.
19. Explain the chemical composition of bacterial cell wall.
20. Describe Fritsch system of classification of algae.
21. Explain thallus structure of cosmarium and give an account of vegetative reproduction.
22. Write the Pathogen, Symptoms and control measures of red rot of sugar cone.

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. 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)**
