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(Printed Pages 4)

(20622)

Roll No.

B.Sc.(Micro)-I Year.

3493

B.Sc. (Micro.) Examination, June-2022

BIOLOGY-II

(B-110)

B.Sc. (Micro.)

Time : Three Hours / Maximum Marks : 50

Note : Attempt **Five** questions in all.

Question **No 1** is **compulsory**. Each question carries 10 marks. Draw neat and well labelled diagrams wherever required.

1. Attempt **all** parts. Give very short answers. $1 \times 10 = 10$

(a) What is coenobium?

P.T.O.

- (b) What is the common name of the members of Rhodophyta?
- (c) Which generation is well developed in pteridophytes?
- (d) Explain the term stele?
- (e) What are the different components of phloem?
- (f) Give two examples of connective tissues.
- (g) Dark reaction of photosynthesis takes place in which part of chloroplast?
- (h) Define the term pinocytosis?
- (i) Write down the two main characteristic features of coniferophyta?
- (j) Write the name of pigment that gives brown colour to brown algae?

2. Write short notes on the following :

$$5+5=10$$

(a) Chlorophyta

(b) Bacillariophyta

3. Give general characters of division
pteridophyta and also write differences
between Pteridophyta and Bryophyta? 10

4. Describe the type, structure and functions
of muscular tissue. 10

5. Write a detailed account on transport
tissues in plants. 10

6. Describe the mechanism of dark reaction
in photosynthesis and also differentiate
between C₃ and C₄ plants. 10

7. Explain the following terms : 2.5×4=10

(a) Neuron

(b) Shoot Apex Meristem

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(20517)

Roll No. 1694968/4

B.Sc. (Micro.)-I Year

3493

B.Sc. (Micro.) Examination, May 2017

Biology - II

(B-110)

Time : Three Hours / Maximum Marks : 50

Note : Attempt five questions in all. Question No.1 is compulsory. Each question carries equal marks. Draw neat and well labelled diagrams wherever required. Give one word answer. $1 \times 10 = 10$

1. (a) Which class of algae is known as diatoms?
(b) Who is father of bryology?
(c) Define osmosis?
(d) What is Blackman's law?

P.T.O.

- (e) In which plant stomata open at night
and close during day.
- (f) Carotenoids.
- (g) Compensation Point.
- (h) In which plant group kranz anatomy is found.
- (i) Give example of plants in which C₄ cycle is found.
- (j) What is the function of Xylem in plants?
2. Give the outline classification of Pteridophyta upto class along with suitable examples. 10
3. Describe the muscular tissue of animals in detail. Give the ultrastructure of striated muscles. 10
4. What is the difference between C₃ and C₄ plants in relation to CO₂ concentration and light reaction? 10

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5. Comment on: $5+5=10$

- (a) Meristematic tissue in plants
- (b) Parenchyma, Collenchyma and Sclerenchyma.

6. Discuss important characteristics of Chlorophyta, Phaeophyta and Sphenophyta along with suitable examples. 10

7. Write short notes on: $5+5=10$

- (a) Photosynthetic pigments
- (b) Xylem and Phloem

8. Discuss about: $5+5=10$

- (a) Phagocytosis and pinocytosis
- (b) Simple and stratified epithelium

9. Describe active transport and passive transport in detail along with suitable examples. 10

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P.T.O.

(a) Describe important characters of
Bacillariophyta. $5+5=10$

(b) Connective tissue in animals

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B.Sc.(Micro)-I Year.

3493

B.Sc. (Micro.) Examination, May-2024

BIOLOGY-II

(B-110)

B.Sc. (Micro)

Time : Three Hours / Maximum Marks : 50

Note : Attempt **Five** questions in all.

Question **No 1** is **compulsory**. Each question carries 10 marks. Draw neat and well labelled diagrams wherever required.

1. Attempt **all** parts. Give very short answers. $1 \times 10 = 10$

(a) Explain the term stele.

(b) What are Diatoms?

P.T.O.

- (c) Write different components of xylem.
- (d) What is the site for Dark reaction of Photosynthesis in chloroplast?
- (e) Write 2 examples of connective tissue.
- (f) Define active transport.
- (g) What is the storage material in Brown algae.
- (h) Give 2 characteristic features of Rhodophyta.
- (i) Write 2 main features of coniferophyta.
- (j) Name the red-algae which produce agar-agar.

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2. Write short notes on :
- (a) Dark Reaction in Photosynthesis.
 - (b) Factors affecting photosynthesis.
- 5+5=10
3. Give general account of division Bryophyta
and also provide a comparison between
pteridophyta & Bryophyta. 10
4. Give details of various types of transport
tissues in plants. 10
5. Describe light reaction of photosynthesis
and explain differences between C₃ and
C₄ plants.
6. Explain the following terms : 2.5×4=10
- (a) Facilitated diffusion
 - (b) Absorption spectrum
 - (c) Water potential
 - (d) Shoot apex meristem

7. Describe types, structure and functions
of nervous tissue. 10
8. Write notes on : 5+5=10
- (a) Osmosis
 - (b) Pigment systems in Photosynthesis
9. Write brief account of algal classification
with examples. 10
10. Write notes on : 5+5=10
- (a) Ecological aspects of Photosynthesis
 - (b) Biological pumps

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Roll No. 8180979131035

Total Questions : 10]

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B.Sc. (Microbiology) Ist Year Examination,
May-2019

BIOLOGY-II

(B-110)

(B.Sc.-Micro)

Time : 3 Hrs.

[M.M. : 50]

Note :- Attempt five questions in all. Question No. 1 is compulsory. Each question carries 10 marks. Draw neat and well labelled diagrams wherever required.

1. Answer the following :

(i) What is algal bloom ?

(ii) Give the example of heterophyllous pteridophyte.

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(1)

Turn Over

- (iii) Write down the botanical name of one angio-sperm with family.
- (iv) Elaters are present in which bryophyte.
- (v) Hyaline cartilage is made up of which type of tissue.
- (vi) Write down the example of connective tissue.
- (vii) What is Thallus?
- (viii) Give the example of two members of Rhodophyta.
- (ix) What is Neuron?
- (x) What is the function of gemma cups in Bryophytes? $1 \times 10 = 10$
2. What is Photosynthesis? Describe in detail the mechanism and factors affecting the photosynthesis. 10
3. Write notes on the following : 5+5=10
- (i) Epithelial tissue
 - (ii) Muscular tissue

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(2)

Collar
Collar
Collar

4. Write a detailed account on important characteristics of bryophytes. How are they differ from the pteridophytes ? 10
5. Write notes on the following : 10
- Bacillariophyta
 - Rhodophyta
6. Differentiate between the following : 5+5=10
- C₃ plants and C₄ plants
 - Absorption spectrum and action spectrum
7. Describe in detail the structure and function of meristems tissue in plants. 10
8. Write notes on the following : 10
- Pigments systems
 - Active transport
9. Describe in detail the structure and function of connective tissue in animals. 10
10. Give the outline classification of angiosperms. 10

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(20622) Roll No.
B.Sc.(Micro)-I Year.

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B.Sc. (Micro.) Examination, June-2022

BIOLOGY-II

(B-110)

B.Sc. (Micro.)

Time : Three Hours / Maximum Marks : 50

Note : Attempt **Five** questions in all.

Question No 1 is compulsory. Each question carries 10 marks. Draw neat and well labelled diagrams wherever required.

1. Attempt **all** parts. Give very short answers.
 $1 \times 10 = 10$

(a) What is coenobium?

P.T.O.

- (b) What is the common name of the members of Rhodophyta?
- (c) Which generation is well developed in pteridophytes?
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- (e) What are the different components of phloem?
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- (g) Dark reaction of photosynthesis takes place in which part of chloroplast?
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- (i) Write down the two main characteristic features of coniferophyta?
- (j) Write the name of pigment that gives brown colour to brown algae?

2. Write short notes on the following : 5+5=10

(a) Chlorophyta

(b) Bacillariophyta

3. Give general characters of division pteridophyta and also write differences between Pteridophyta and Bryophyta? 10

4. Describe the type, structure and functions of muscular tissue. 10

5. Write a detailed account on transport tissues in plants. 10

6. Describe the mechanism of dark reaction in photosynthesis and also differentiate between C₃ and C₄ plants. 10

7. Explain the following terms : 2.5×4=10 10

(a) Neuron

(b) Shoot Apex Meristem

P.T.O.

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- (c) Biological pumps
- (d) Action spectrum

8. Write notes on the following : $5+5=10$

(a) Osmosis

(b) Factors affecting photosynthesis

9. Classify angiosperms upto class level
along with example.

10. Write notes on the following : $5+5=10$

(a) Light reaction of photosynthesis

(b) Epithelial tissue