

Total No. of Printed Pages:2

SUBJECT CODE NO:- B-2019
FACULTY OF SCIENCE AND TECHNOLOGY
B.Sc. F.Y. (Sem-I) Examination Oct/Nov 2019
Botany Paper-I
Diversity of Cryptogams-I

[Time: 1.30 Hours]

[Max.Marks:50]

Please check whether you have got the right question paper.

- N.B
- 1) Attempt all questions
 - 2) Illustrate your answer with well labelled diagram
- Q.1 Describe in detail the structure of TMV and add a note on its multiplication. 20
 OR
 Explain in detail systematic position, thallus structure and reproduction in sargassum.
- Q.2 Describe the life cycle of Agaricus 20
 OR
 Write short notes on (any four)
- a) General characters of Bacteria
 - b) Types of lichens
 - c) Globule & nucule
 - d) Batrachospermum
 - e) Asexual Reproduction in Mucor
 - f) Gills of Agaricus
- Q.3 Multiple choice questions. 10
- 1) Reproduction in Bacteria takes place by-----
 a) Zoospores b) conidia c) Aplanospores d) Binary fission
 - 2) The Bacterial transformation discovered by -----
 a) Leeuwenhoek b) Griffith c) Robert Hill d) Khorana
 - 3) TMV stands for -----
 a) Total multiple virus b) Tobacco mosaic virus
 c) tomato mosaic virus d) Tree Mosaic virus
 - 4) Classification of cryptogam is based on -----
 a) D.I. Arnon b) Bateson c) Smith d) Robert Koch
 - 5) The cyanobacteria are -----
 a) Eukaryotic b) prokaryotic c) a & b both d) None of the above
 - 6) A kinate formation takes place in -----
 a) Red Algae b) yellow Algae c) Diatoms d) Blue green Algae

- 7) Sexual reproduction in Botrydium is -----
 - a) Oogamous b) Anisogamous c) isogamous d) All of the above

- 8) The sexual spores are ----- in mucor
 - a) Motile b) non- motile c) flagellated d) capsulated

- 9) Umbrella like cap of Mushroom is -----
 - a) Pileus b) Basidium c) Gill d) capsid

- 10) Tikka disease of groundnut is caused by -----
 - a) Aspergillus b) Albugo c) Alternaria d) cercospora

Time: One Hour

Max. Marks: 25

Instructions

- Solve any 25 questions from Q1 to Q30

- The Coccus bacteria are ----- shaped
(A)Rod (B)Coma (C)Rounded (D)None of these
- Which among the following is called as filamentous bacteria
(A)Mycoplasma (B)Actinomycetes (C)Viruses (D)None of these
- Bacterial flagella is made up of
(A)Microtubules (B)Tubulin (C)Flagellin (D)Spinin
- The genetic material in virus is
(A)DNA & RNA (B)DNA or RNA (C)Neither DNA nor RNA (D)None of these
- Viruses are -----
(A)Multicellular (B)Eukaryotic (C)Acellular (D)Autotrophic
- Lichens are -----
(A)Autotrophic (B)Heterotrophic (C)Parasitic (D)None of these
- Study of bacteria is called as
(A)Phycology (B)Mycology (C)Bacteriology (D)Lichenology
- Cryptogams does not contains -----
(A)Thallophytes (B)Angiosperms (C)Bryophytes (D)Pteridophytes
- Tobacco mosaic symptoms are mainly observed on
(A)Leaves (B)Roots (C)Flowers (D)None of these
- Which one of the following is disease is caused by mycoplasma
(A)Little leaf of Brinjal (B)Tikka disease of Groundnut (C)Citrus canker (D)None of these
- Sargassum is a member of ----
(A)Rhodophyta (B)Cyanophyta (C)Phaeophyta (D)Cholorophyta
- Chara is a ----- algae
(A)Brown (B)Green (C)Red (D)Yellow
- marine algae is popularly called gulf weed
(A)Oedogonium (B)Sargassum (C)Ectocarpus (D)Volvax
- algae is known as stonewort
(A)Sargassum (B)Chara (C)Batrachospermum (D)Botrydium
- Hetrocysts are -----
(A)Green and thin walled (B)Green and thick walled (C)Colourless thin walled (D)Colourless thick walled
- The whorl of dwarf branches at the each nodal region of Batrachospermum is known as-----
(A)Nucule (B)Glubule (C)Glomerule (D)Receptacle
- Which one of the following is present in blue green algae
(A)Starch (B)Cyanophycin granules (C)Polysaccharides (D)None of these
- algae is mainly marine algae
(A)Chara (B)Batrachopermum (C)Nostoc (D)None of these
- Origin and evolution of sex in algae is best seen in ----
(A)Blue green algae (B)Green algae (C)Red algae (D)Brown algae
- Which of the following is the most advanced group of algae
(A)Rhodophyta (B)Cyanophyta (C)Phaeophyta (D)Chlorophyta
- Chloroplast is totally absent in -----
(A)Algae (B)Fungi (C)Bryophytes (D)Pteridophytes
- The structure in which Ascospores formed is -----
(A)Basidium (B)Sporangium (C)Ascus (D)None of these
- The fruiting body of Eurotium is called as
(A)Apothecium (B)Perithecium (C)Cleistotheicum (D)None of these
- Albugo mycelium sucks the readymade food material from host cells by means of ----
(A)Roots (B)Rhizoids (C)Haustoria (D)None of these
- Basidiocarp is a fruiting body of the fungus ----
(A)Aspergillus (B)Agaricus (C)Albugo (D)None of these
- Yeast is example of -----
(A)Bacteria (B)Bryophytes (C)Pteridophytes (D)Fungi
- Cercospora produces -----

Examination October 2020

- (A)Ascospores (B)Basidiospores (C)Aplanospores (D)Conidia
- 28 Thick walled spore like structure formed in the mycelium of Mucor is called as
- (A)Hypnospor (B)Chlamydo spore (C)Akinates (D)Oidia
- 29 Mucor is a ----- fungus
- (A)Autotrophic (B)Parasitic (C)Saprophytic (D)None of these
- 30 Most of the post harvest diseases of fruits and vegetables are caused by
- (A)Agaricus (B)Aspergillus (C)Cercospora (D)None of these

Total No. of Printed Pages: 02

SUBJECT CODE NO:- 2037
FACULTY OF SCIENCE AND TECHNOLOGY
B.Sc. F.Y Sem. I
Examination March/April-2022 (To Be Held In June/July-2022)
Botany Paper-I
Diversity of Cryptogams-I

[Time: 1:53 Hours]

[Max. Marks:50]

Please check whether you have got the right question paper.

- N.B
- i) Attempt all the questions.
 - ii) Illustrate your answer with well labeled diagram.
- Q.1
1. Describe the general character of viruses and add a note on its Economic Importance. 20
 - OR
 2. Explain the life cycle of chara 20
- Q.2 Describe the life cycle of Eurotium 20
- OR
- Write short notes on (any four)
- a) General character of mycoplasma
 - b) Economic Importance of Bacteria 20
 - c) Usnea Lichen
 - d) Gills of Agaricus.
 - e) Economic importance of Algae
 - f) Ascocarp
- Q.3 Multiple choice questions. 10
1. Which of the following is not the basic shape of the Bacteria?
 - a) Rod shape
 - b) Square shape
 - c) Comma shape
 - d) Spiral shape
 2. All the Bacteria Fixnitroqen except _____
 - a) Rhizobium
 - b) E.coli
 - c) Azotabactor
 - d) Cyanobacteria
 3. The Genetic Material in Virus is _____
 - a) DNA & RNA
 - b) RNA only
 - c) DNA only
 - d) DNA or RNA

4. Which are the most primitive group of algae _____
- Blue green Algae
 - Red Algae
 - Brown Algae
 - Green Algae
5. One of the following is present in blue green algae _____
- Starch
 - Cyanophacean granule
 - Any polysaccharide
 - None of these
6. Hetro Cysts are _____
- Colorless & thin walled
 - Green & thick walled
 - Colorless & thin walled
 - Colorless & thick walled
7. Fungi usually store the reserve food material in the form of _____
- Starch
 - Lipid
 - Glycogen
 - Protein
8. Fungi producing usually eight spores in a sac like structure belong to _____
- Phycomycetes
 - Ascomycetes
 - Basidirmicotes
 - Deuteromcetes
9. The fruiting body of Eurotium is called _____
- Apothecium
 - Perithecium
 - Cleistothecium
 - Hypanthodium
10. Perfect stage of fungus means _____
- Fungus is perfectly healthy
 - Produce Asexually
 - Forms perfect sexual spores
 - None of these

Total No. of Printed Pages: 2

SUBJECT CODE NO: - CB-2337
FACULTY OF SCIENCE AND TECHNOLOGY
B.Sc. F.Y. (Sem-I)
Examination December/January-2022-23
Botany Paper-I BOT-011
Diversity of Cryptogams-I

[Time: 1:30 Hours]

[Max. Marks:40]

N. B Please check whether you have got the right question paper.

- 1) Attempt All questions
- 2) All question carry equal marks.
- 3) Draw neat and well labelled diagram wherever necessary.

Q1 Describe in details life cycle of sargassum. 10

OR

Describe the brief

- a) Economic importance of Algae
- b) Reproduction in batrachospermum

Q2 Explain in details general character and forms of thalli in lichen. 10

OR

Describe in brief

- a) Sexual reproduction in mucor
- b) Economic importance of fungi

Q3 Write short notes (any two) 10

- a) General characters mycoplasma
- b) Citrus canker
- c) Economic importance of viruses

Q4 Multiple choice questions 10

1. Transfer of genetic material from the donor to recipient bacterium through cell contact is termed as _____.
 a) transduction b) recombination c) conjugation d) transformation
2. Bacterial cell wall is made up of _____.
 a) chitin b) cellulose c) dextran d) peptidoglycan
3. Tikka diseases of ground nut caused by _____.
 a) cercospora b) Alsugo c) alternaria d) mucor
4. The fungi which derive their foods directly from dead organic matter are known as _____.
 a) predictors b) decomposers c) mutualists d) parasitic fungi

5. Fungi differ from algae in having
 - a) chlorophyll
 - b) starch as reserve foods
 - c) cell wall made up of cellulose
 - d) cell wall made up of chitin

6. Reserve food material of fungi is _____.
 - a) glucose
 - b) glycogen
 - c) protein
 - d) starch

7. The plants which are consists of _____ and are very primitive plants are called as halophytes.
 - a) thallus
 - b) leafy structure
 - c) roots
 - d) stems

8. The semiotic association of algae and fungi is known as _____.
 - a) mycorrhiza
 - b) lichen
 - c) mycoplasma
 - d) Both A and B

9. _____ is the father of Indian mycology.
 - a) E.J. Butler
 - b) Sharma V.N
 - c) Alexopolus
 - d) Saxena A.D

10. TMV was discovered by
 - a) stanely
 - b) Ivanowski
 - c) mayer
 - d) beijerinck

Total No. of Printed Pages: 2

SUBJECT CODE NO: - Y-2037
FACULTY OF SCIENCE AND TECHNOLOGY
B.Sc. F.Y (Sem-I)
Examination March / April - 2023
Botany Paper-I Diversity of Cryptogams-I

[Time: 1:30 Hours]

[Max. Marks: 50]

Please check whether you have got the right question paper.

N. B

- 1) Attempt all Questions.
- 2) Illustrate your answer with well labelled diagram.

Q1 Describe in detail forms of thalli in Lichens. Add a note on its economic Importance 20

OR

Describe in detail general characters of Algae. Give the classification according to F.E Fritsch. 20

Q2 Explain the life cycle of Agaricus. 20

OR

write a short notes on (any four) 20

- a) Thallus structure of Nostoc
- b) Vegetative reproduction in Chara
- c) crustose Lichens.
- d) Economic Importance of fungi
- e) Cleistothecium
- f) Tikka disease.

Q3 Multiple choice questions. 10

- 1) Tobacco Mosaic Virus is ____
 a) spherical shaped b) rod shaped c) cuboidal d) oval shaped.
- 2) Viruses that attacks bacteria are, Called as
 a) Lyso phase b) bacterio phase c) Virophage d) None of these
- 3) coccus bacteria are ____ shaped.
 a) Rod b) Comma c) Rounded d) None of these

- 4) The symbiotic association between algae and fungi is called as _____.
a) mycorrhiza b) Lichen c) VAM d) Mutualism.
- 5) phycology is the study of _____.
a) Algae b) fungi c) Bryophyta d) Pteridophyta
- 6) Batrachospermum is _____ Algae.
a) Brown b) Green c) Red d) yellow
- 7) _____ Algae is also known as stonewort.
a) Sargassum b) Chara c) Batrachospermum d) Botrydium.
- 8) The edible fungi are _____.
a) Rusts b) Mushrooms c) moulds d) mildews
- 9) penicillin which is used as a antibiotic is obtained from _____.
a) Bacteria b) Fungi c) Algae d) Lichens.
- 10) The structure in which an ascospore are formed in _____.
a) Basidium b) sporangium c) Ascus d) None of these

Total No. of Printed Pages: 2

SUBJECT CODE NO: - Y-2037
FACULTY OF SCIENCE AND TECHNOLOGY
B.Sc. F.Y (Sem-I)
Examination March / April - 2023
Botany Paper-I Diversity of Cryptogams-I

[Time: 1:30 Hours]

[Max. Marks: 50]

Please check whether you have got the right question paper.

N. B

- 1) Attempt all Questions.
- 2) Illustrate your answer with well labelled diagram.

Q1 Describe in detail forms of thalli in Lichens. Add a note on its economic Importance 20

OR

Describe in detail general characters of Algae. Give the classification according to F.E Fritsch. 20

Q2 Explain the life cycle of Agaricus. 20

OR

write a short notes on (any four) 20

- a) Thallus structure of Nostoc
- b) Vegetative reproduction in Chara
- c) crustose Lichens.
- d) Economic Importance of fungi
- e) Cleistothecium
- f) Tikka disease.

Q3 Multiple choice questions. 10

- 1) Tobacco Mosaic Virus is ____
 a) spherical shaped b) rod shaped c) cuboidal d) oval shaped.
- 2) Viruses that attacks bacteria are, Called as
 a) Lyso phase b) bacterio phase c) Virophage d) None of these
- 3) coccus bacteria are ____ shaped.
 a) Rod b) Comma c) Rounded d) None of these

- 4) The symbiotic association between algae and fungi is called as _____.
a) mycorrhiza b) Lichen c) VAM d) Mutualism.
- 5) phycology is the study of _____.
a) Algae b) fungi c) Bryophyta d) Pteridophyta
- 6) Batrachospermum is _____ Algae.
a) Brown b) Green c) Red d) yellow
- 7) _____ Algae is also known as stonewort.
a) Sargassum b) Chara c) Batrachospermum d) Botrydium.
- 8) The edible fungi are _____.
a) Rusts b) Mushrooms c) moulds d) mildews
- 9) penicillin which is used as a antibiotic is obtained from _____.
a) Bacteria b) Fungi c) Algae d) Lichens.
- 10) The structure in which an ascospore are formed in _____.
a) Basidium b) sporangium c) Ascus d) None of these

Total No. of Printed Pages: 2

SUBJECT CODE NO: - BB-2377
FACULTY OF SCIENCE AND TECHNOLOGY
B.Sc. (CBCGS) (Pattern 2022) F.Y (Sem-I)
Examination November/December-2023
Botany Paper-I Diversity of Cryptogams-I

[Time : 1:30 Hours]

[Max. Marks : 40]

Please check whether you have got the right question paper.

- N. B
- i) Attempt all questions.
 - ii) All questions carry equal marks.
 - iii) Draw neat and well labelled diagrams wherever necessary.
- Q1 Describe structure and life cycle of sargassum. **10**
- OR**
- (a) Economic importance of Algae **5**
 - (b) Thallus structure of Nostoc **5**
- Q2 Describe in detail life cycle of Agaricus **10**
- OR**
- (a) Asexual reproduction in Albugo **5**
 - (b) Economic importance of Fungi **5**
- Q3 Write short notes on any Two **10**
- (a) Economic importance of Bacterial
 - (b) General characters of Mycoplasma
 - (c) Economic importance of Viruses
- Q4 Multiple choice questions. **10**
- (1) Which of the following statement is true about the TMV ?
 - (a) RNA virus
 - (b) DNA virus
 - (c) Bacteriophage
 - (d) SSDNA
 - (2) The symbiotic association of algae and fungi is known as ----- .
 - (a) Mycorrhiza
 - (b) Lichen
 - (c) Mycoplasma
 - (d) Both a and b
 - (3) Perfect stage of Fungus indicate.

(a) it can reproduce asexually	(b) it is perfectly healthy
(c) it is able to form perfect sexual spores	(d) All of the above

- (4) The protein coat of virus that enclose the genetic material is called
- (a) virion (b) capsid
(c) peplomers (d) capsomers
- (5) What is the mode of sexual reproduction in chlorophyceae.
- (a) Isogamy (b) anisogamy
(c) oogamy (d) All of the above
- (6) Reserve food material of Algae is
- (a) Starch (b) Sugar
(c) Glycogen (d) Fat
- (7) The witches broom disease caused by
- (a) Bacteria (b) Mycoplasma
(c) Algae (d) Fungi
- (8) A common phycobiont in lichen is
- (a) Trebouxia (b) Cetraria
(c) Microcystis (d) Oegonium
- (9) Which of the following is rich in protein.
- (a) Vaucheria (b) chara
(c) Sargassum (d) Batrachospermum
- (10) Genus-Agaricus belongs to class
- (a) Ascomycetes (b) Basidiomycetes
(c) Phycomycetes (d) Deuteromycetes

Total No. of Printed Pages: 2

SUBJECT CODE NO: - CB-2337
FACULTY OF SCIENCE AND TECHNOLOGY
B.Sc. F.Y. (Sem-I)
Examination December/January-2022-23
Botany Paper-I BOT-011
Diversity of Cryptogams-I

[Time: 1:30 Hours]

[Max. Marks:40]

N. B Please check whether you have got the right question paper.

- 1) Attempt All questions
 2) All question carry equal marks.
 3) Draw neat and well labelled diagram wherever necessary.

Q1 Describe in details life cycle of sargassum. 10

OR

Describe the brief

- a) Economic importance of Algae
 b) Reproduction in batrachospermum

Q2 Explain in details general character and forms of thalli in lichen. 10

OR

Describe in brief

- a) Sexual reproduction in mucor
 b) Economic importance of fungi

Q3 Write short notes (any two) 10

- a) General characters mycoplasma
 b) Citrus canker
 c) Economic importance of viruses

Q4 Multiple choice questions 10

1. Transfer of genetic material from the donor to recipient bacterium through cell contact is termed as _____.
 a) transduction b) recombination c) conjugation d) transformation
2. Bacterial cell wall is made up of _____.
 a) chitin b) cellulose c) dextran d) peptidoglycan
3. Tikka diseases of ground nut caused by _____.
 a) cercospora b) Alsugo c) alternaria d) mucor
4. The fungi which derive their foods directly from dead organic matter are known as _____.
 a) predictors b) decomposers c) mutualists d) parasitic fungi

5. Fungi differ from algae in having
 - a) chlorophyll
 - b) starch as reserve foods
 - c) cell wall made up of cellulose
 - d) cell wall made up of chitin

6. Reserve food material of fungi is _____.
 - a) glucose
 - b) glycogen
 - c) protein
 - d) starch

7. The plants which are consists of _____ and are very primitive plants are called as halophytes.
 - a) thallus
 - b) leafy structure
 - c) roots
 - d) stems

8. The semiotic association of algae and fungi is known as _____.
 - a) mycorrhiza
 - b) lichen
 - c) mycoplasma
 - d) Both A and B

9. _____ is the father of Indian mycology.
 - a) E.J. Butler
 - b) Sharma V.N
 - c) Alexopolus
 - d) Saxena A.D

10. TMV was discovered by
 - a) stanely
 - b) Ivanowski
 - c) mayer
 - d) beijerinck