2022

(CBCS)

(1st Semester)

# BOTANY

Paper Code: BGE-01

# [ Biodiversity (Microbes, Algae, Fungi and Archegoniate) ]

Full Marks: 75 Pass Marks: 40%

Time: 3 hours

3. (a) Discuss the classification of funci

( PART : B—DESCRIPTIVE )

( Marks: 50 )

The figures in the margin indicate full marks for the questions

Answer one question each from any five Units

### UNIT—1

1. (a) Write a note on general structure and replication of virus with suitable diagram.

10

Or

(b) Write short notes on:

5×2=10

- (i) RNA virus
- (ii) General characteristics of bacteria

L23/200a

(Turn Over)

#### UNIT-2

2. (a) Write an account on morphology and life cycle of nostoc. 10

Or

(b) Write notes on:

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 $5 \times 2 = 10$ 

- (i) Chlamydomonas reproduction methods
- (ii) Economic importance of algae

# UNIT-3

3. (a) Discuss the classification of fungi.

Or

(b) Write notes on:

 $5 \times 2 = 10$ 

10

- (i) Endomycorrhiza and ectomycorrhiza
  - (ii) General account of lichens

## UNIT-4

4. (a) Discuss the unifying features of archegoniate.

Or

(b) What is alternation of generation? Describe the alternation of generation in archegoniate.

10

L23/200a

(Continued)

# UNIT-5

5. (a) Write a note on the economic importance of bryophytes with special reference to sphagnum.

10

Or lo vinotanA (ii)

(b) Write short notes on:

5×2=10

- (i) Adaptation of bryophytes to land habit
- (ii) Reproduction of Marchantia

#### UNIT-6

6. (a) Write an account on morphology and reproduction of Equisetum.

Or

(b) Write notes on:

 $5 \times 2 = 10$ 

- (i) Heterospory and Seed habit
- (ii) Stellar evolution in pteridophytes

# UNIT-7

7. (a) Give a general account of gymnosperms with suitable examples.

10

L23/200a

(Turn Over)

Or

(b) on Write notes on : ston

5×2=10

(i) Ecological and economic importance of gymnosperms

(ii) Anatomy of Cycas leaf

5x2 = 10

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(i) Adaptation of bryophytes to land

(ii) Reproduction of Marchania

(b) Write short notes on :

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6. (a) Write an account on morphology and a representation of Equivature.

10

(b) Wate meter on : 5×2=10

(i) Heterospory and Seed habit

30 Stellar evolution in pieridophytes

Gave a second account of gramosperms

L23-300/200a

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