

**2023**

**Full Marks - 70**

**Time - 3 Hours.**

*The figures in the right-hand margin indicate marks.*

*Answer ALL questions.*

**Section - A**

1. Answer all the questions : [2×10]
- (a) What is mean by coenobium algae ?
  - (b) What are phycocolloids ?
  - (c) What is ascocarp ?
  - (d) What are fungal toxins ?
  - (e) What is protonema ?.
  - (f) Describe Gemma cup ?
  - (g) What is Rhizophore ?
  - (h) What are living fossils ?
  - (i) What are the different steps of fossilisation ?
  - (j) Describe sulphur shower ?

**Section - B**

2. Long Answer type questions :
- (i) Describe the classification of Algae based on thalus organization, pigment, flagella, reserve food, reproduction and life cycle. [10×1]

*P.T.O.*

[ 2 ]

OR

Write notes on : [5×2]

- (a) Economic importance of Algae
- (b) Algal Bloom

3. Describe the degeneration of sex in Fungi ?

OR

Write notes on :

- (a) Heterothallism
- (b) Thallus organisation in Fungi

4. Describe the progressive sterilisation of sporogeneous tissue in bryophytes ?

OR

Write notes on :

- (a) Alternation of generation in bryophytes
- (b) Spore dispersal in bryophyte

5. Describe the steller evolution in pteridophytes ?

OR

Write notes on :

- (a) Heterospory
- (b) Reproduction in Lycopsida

[Cont...

[ 3 ]

6. Describe the structure and reproduction of Gnetales ?

OR

Write notes on :

- (a) Role of fossil in evolution
- (b) Fossil pteridophytes



SA - 40