

UG/1st Sem/H/20(CBCS)

2020

BOTANY (Honours)

Paper : BOTH-DC-1

(CBCS)

Full Marks : 25

Time : Two Hours

The figures in the margin indicate full marks.

Candidates are required to give their answers

in their own words as far as practicable.

1. Answer any *five* questions of the following : 1×5=5

- (a) What is androsporangium?
- (b) What is cystocarp? Where is it found?
- (c) Name one ssDNA virus.
- (d) What is sexduction?
- (e) Name one denitrifying bacteria.
- (f) What is manubrium? Where is it found?
- (g) Name one heterotrichous algal species.
- (h) What is F factor?

2. Answer any *four* questions of the following : 4×3=12

- (a) Distinguish between the gonidium and coenobium. 3
- (b) What is the role of PGPR in agriculture as biofertilizer? 3
- (c) Mention the steps of industrial vinegar production. 3
- (d) State the general characteristics of virus. 3

(e) What is meant by specialized transduction? How does it differ from generalized transduction? $1\frac{1}{2}+1\frac{1}{2}=3$

(f) Write short note on cell structure of diatoms. 3

3. Answer any *one* question of the following : $1\times 8=8$

(a) What is isomorphic alteration of generation? Enumerate the life cycle pattern of *Ectocarpus* with suitable diagram. $2+6=8$

(b) Enumerate the chemical structure of bacterial cell wall. How does cell wall of Gram-positive bacteria differ from cell wall of Gram-negative bacteria? $4+4=8$
