(English Version)

Total No. of Questions - 21
Total No. of Printed Pages - 2

31 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1										
Regd.	gray.							24		
No.	Cont.	979					4	11	5	2

Part - III BONANCE Paper ation.com (Biological Sciences)

Time: 3 Hours

Max. Marks: 60

Note: Read the following instructions carefully:

- Answer all questions of Section 'A'. Answer any six questions out of eight in Section 'B' and answer any two questions out of three in Section 'C'.
- 2) In Section 'A', questions from Sr. Nos. 1 to 10 are of "Very Short Answer Type". Each question carries two marks. Every answer may be limited to five lines. Answer all the questions at one place in the same order.
- 3) In Section 'B', questions from Sr. Nos. 11 to 18 are of "Short Answer Type". Each question carries four marks. Every answer may be limited to 20 lines.
- 4) In Section 'C', questions from Sr. Nos. 19 to 21 are of "Long Answer Type". Each question carries eight marks. Every answer may be limited to 60 lines.
- 5) Draw labelled diagrams wherever necessary for questions in Section 'B' and 'C'.

SECTION A

Note: Answer all questions. Each answer may be limited to 5 lines.

 $10 \times 2 = 20$

- What is the basic unit of classification? Define it.
- 2 How are viroids different from viruses?
- 3 Who discovered the cell? Which book was written by him?
- What is meant by a pulvinus leafbase? In members of which angiospermic family do you find them?
- Name a plant that has a single fruit developing from the entire inflorescence. What is such a fruit called?

- 6. Name the type of pollination mechanism found in members of Fabaceae.
- www.sakshjeducation.com
 Which part of a bacterial cell is targeted in gram staining?
- 8. Explain the zwitterionic form of an amino acid.
- If a tissue has at a given time 512 cells, how many cycles of mitosis had the original parental single cell undergone?
- 16. Name the type of land plants that can tolerate the salinities of the sea.

SECTION B

Note: Answer any six questions. Each answer may be limited to 20 lines $6 \times 4 = 24$

- Write the role of fungi in our daily life.
- 12 Differentiate between red algae and brown algae.
- 13. List the changes observed in an angiosperm flower subsequent to pollination and fertilization.
- 14. Describe the nonessential floral parts of plants belonging to Fabaceae.
 - 15. What are nucleosomes? What are they made of?
 - 16. Which division is necessary to maintain a constant chromosome number in all body cells of multicellular organisms? Why is it necessary?
 - 17. A transverse section of the trunk of a tree shows concentric rings which are known as annual rings. How are these rings formed? What is the significance of these rings?
 - 18. List the anatomical adaptations of hydrophytes.

SECTION C

Note: Answer any two questions. Each answer may be limited to 60 lines. $2 \times 8 = 16$

- 19. With a neat labelled diagram, describe how a stem is variously modified to perform different functions. Describe any six modifications.
- 20. With a neat labelled diagram, explain the parts of a mature angiosperm embryo sac. Mention the role of synergids.
- 21. Describe the internal structure of a dorsiventral leaf with the help of a labelled diagram.

Đ.