

# BOTANY

2019

Time: 1 Hours 45 Minutes

Marks: 36

## SECTION 'B' (SHORT-ANSWER QUESTIONS) (22)

2. Answer any 10 part questions.

- (i) Name the pathways available for water to enter the Xylem. (ii) Name any two diseases caused by Virus.
- (iii) Why is Deuteromycota called Fungi imperfecti?
- (iv) Name the phases of Bacterial growth.
- (v) Write the botanical names of any two of the following:  
\* Rice \* Potato \* Almond
- (vi) Why are lysosomes called suicidal sacs?
- (vii) Write only the name of the methods of Genetic recombination in bacteria.
- (viii) What is Double fertilization?
- (ix) Why is ATP called the Currency of energy?
- (x) Write names of reactants & products of Photosynthesis/
- (xi) Name the two processes of gaseous exchange in plants
- (xii) Write the names of five groups of Vascular plants.
- (xiii) Draw a neat and labeled diagram of a Bacterial cell.
- (xiv) Name four groups of Fungi. (xvi) What are prions?
- (xv) Name the five Kingdoms of living organism.

3. Answer any six part questions.

- (i) State Root Pressure Theory.
- (ii) Draw graphical life cycle of Ulva.
- (iii) Write the salient features of Cyanobacteria.
- (iv) Differentiate between Lysogenic and Lytic cycle.
- (v) Write note on transmission of HIV virus.
- (vi) Define any two of the following:  
\* Plasmolysis \* Diffusion \* Water Potential
- (vii) Write note on any one of the following:  
\* Evolution of Leaf \* Evolution of Seed
- (viii) Draw a chart showing the efficiency of Food chain.
- (ix) Discuss the diversity of Kingdom Protocista.

## SECTION 'C' (DETAILED- ANSWER QUESTIONS)

**NOTE:** Answer 2 question from this section(14)

- 4.(a) Describe the floral characters and economic importance of family Rosaceae. (b) Write the floral formula and draw the floral diagram of family Fabaceae.
  5. Define Cellular Respiration. Elucidate oxidative degradation of Pyruvic acid. 6. Draw and describe the structure and reproduction of Zygomycots fungi.
- OR With the help of diagram, describe the life cycle of Moss.