

BOTANY

2018

Time: 1 Hours 45 Minutes

Marks: 36

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

NOTE: Answer 10 questions from this section.

- 2.(i) Mention any two differences between prokaryotic and eukaryotic cell.
- (ii) What is isomorphic alternation of generation?
- (iii) Give two economic importance of Fungi.
- (iv) What is Bacteriophage?
- (v) Name various types of transpiration.
- (vi) Write the floral formula of family Fabaceae.
- (vii) Write the botanical names of any two of the following:
* Tobacco * Edible pea * Rose * Rice
- (viii) Give two symptoms of nitrogen deficiency in plants.
- (ix) Define facilitated diffusion. (x) What are Lichens?
- (xi) Name two techniques used to isolate the components of cell. (xii) State the postulates of Cell theory.
- (xiii) Define Photorespiration.
- (xiv) Mention three steps of evolution of seed in plants.
- (xv) How are bacteria classified on the basis of Flagella?
- (xvi) What is Heterocyst?

3. Attempt any six part questions.

- (i) Draw a labeled diagram of fluid mosaic model of plasma membrane. (ii) Trace the evolution of leaf in plants.
- (iii) Give the outline of the classification of Kingdom plantae.
- (iv) Draw diagrammatic lytic cycle of bacteriophage.
- (v) What is fermentation? Also name its types.
- (vi) Why is air considered better respiratory medium than water? (vii) Write four measures to control bacteria.
- (viii) Why do insectivorous plant trap insects while they also prepare carbohydrates by Photosynthesis?
- (ix) Write note on any one of the following:
(a) Nucleus (b) Mitochondria

SECTION 'C' (DETAILED- ANSWER QUESTIONS)

NOTE: Answer 2 question from this section(14)

4. Define Transportation. Describe the mechanism of Ascent of sap.
5. Draw & describe the life cycle of Ulva or Fern.
6. Define Photosynthesis. Describe light reaction.
7. Draw & describe life cycle of Basidiomycota with diagram
8. Describe family Solanaceae under the following heading
(i) Floral Characters (ii) Floral formula (iii) Floral diagram
(iv) Four economic importance with botanical names.