BOTANY

given options:

2016

Time: 15 Minutes Max. Marks: 09

SECTION "A" (MULTIPLE CHOICE QUESTION)

- Choose the correct answer for each from the 1.
- The process of absorption of water and swelling up of (i) hydrophilic substances is known as: *
- Plasmolysis * Osmosis * Imbibition * Deplasmolysis
- (ii) The fungus phytopthora causes a disease known as:
- late blight of Potato Late blight of Tomato
- Early blight of Potato Early blight of Tomato
- Photosynthetic Bacteria liberate: (iii) CO2 02 H₂S
- Hydathodes take part in (iv) the process of:
- Transpiration * Guttation Ascent of sap Translocation
- The member of pteridophyte, which is commonly called (v) 'Horse tails', its example is: Selaginella * Equisetum * Psilotum * Adiantum
- (vi) Hepatitis-type which passes through blood from mother to child during pregnancy is:
- Α В E (vii) Fertilization in spermatophytes does not need water because of:
- Anther * Pollen tube * Stigma Style The hollow filamentous appendages that help during (viii)
- conjugation are called: Flagella Cilia * Capsule Pilli (ix) Yeast are unicellular and belong to:
- Deutromycota Ascomycota Besidiomycota Zygomycota
- Herpes, Shingles, Cancer and Poxes in human beings (x)are caused by: Bacteria * Fungi * Viruses
- Fixation of CO2 is catalyzed by: (xi) Decarboxylase * Rubisco * PEPC * Pepsin
- Muscle fatigue may be caused by the accumulation of: (xii) Citric acid Lactic acid
- Hydrochloric acid Nucleic acid In Electron Microscope, the source of light is: (xiii)

Infrared light

- Electron beam Ultra violet light (xiv) The Fungi, in which sexual Reproduction is Lacking,
 - belong to the class: Zygomycota Basidiomycota
 - Ascomycota Deutromycota
- The basic unit of Biological classification is: (xv)Class Species Division _ *
- Poaceae * Fabaceae Rosaceae Solanaceae (xvii) Ovary is slightly obliquely placed in this family:

Almond belongs to the family:

- Caesalpiniaceae * Solanaceae * Rosaceae * Poaceae packed (xviii) Chloroplast contains densely stacks
- Stroma Frets Grana Matrix

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

BOTANY

organs.

(i)

Time: 1 Hours 45 Minutes

thylakoids known as:

Ordinary light

(xvi)

2.(i)

(iii)

(v)

(x)

(xv)

NOTE: Answer 11 questions from this section.

2016

Marks: 36

What is the cause of Lysosomal storage diseases? (ii) Name them.

Name four groups of Fungi with their reproductive

- (iv) Write the botanical names of any four of the following: Brinjal, Tomato, pear, sweet pea, Rice.
- Photosynthesis and Respiration Name major groups of Vascular plants with examples. (vi)

Angiosperm and Gymnospern

Write the salient features of Cyanobacteria.

Distinguish between any one of the following:

- Write note on the Evolution of Leaf or seed. (vii) (viii) Describe the deficiency symptoms of Nitrogen or
- Potassium in plants. Write a note on Nucleus or Endoplasmic reticulum. (ix)
- water to enter Xylem? Define any two of the following: (xi) (iv) Active transport

What are the three different pathway available in root for

- (i) Plasmolysis (ii) Osmosis (iii) Imbibitions (xii) Define Transpiration. Describe its various types in plant.
- (xiii) Methods of Genetic recombination in Bacteria. (xiv) Write a note on oxidative phosphorylation.
- Write the economic importance of fermentation. Write a note on Alternative mechanism of CO₂ fixation. (xvi)
- NOTE: Answer 2 question from this section(14) Describe floral character, floral formula, floral diagram 3.

SECTION'C' (DETAILED- ANSWER QUESTIONS)

- and economic importance of family Solanaceae or
 - Fabaceae. Describe the life cycle of Fern.
- 4. With the help of Fluid Mosaic Model write the structure, 5. properties and functions of plasma membrane.
- Define Photosynthesis. Describe the light dependent OR reactions of Photosynthesis.