BOTANY Time: 15 Minutes

- answer for each from the given options:
- The Amoeboid stage of Slime mold is called: (i) Plasmodium * Water mold * Entamoeba * none of these These Fungi lack sexual reproduction: (ii)
- Ascomycota Zygomycota
- Deuteromycota Basidiomycota
- This is heterosporous: (iii) Rhynia * Selaginella * Moss * Lycopodium
- Hydathodes take part in the process of: (iv) Transpiration * Translocation * Guttation * Ascent of sap Chloroplast contains densely packed stacks of
- (V) thylakoids known as: * Stroma * Grana * Frets * Matrix
- Lycopersicum-esculentum is the biological name of: (vi) * potato * tomato apple
- Fertilization in Spermatophytes does not need
- (vii)
- because of: * roots * pollen tubes * styles \ stigne
- During pregnancy, this type of hepatitis (viii)
- mother to child via blood (
- Oyster mushroom was an (ix)
- Parasitic fungi Symbiotic Wing Predator fungi Saprophytic fungi

Vascular plants

none of these Aquatic plants Seed plants are included in: (xi)

Psilopside * Lycopsida * Sphenopsida * Spermopsida

Bryophytes are:

Non-vascular plants

(X)

(XV)

- Process of absorption of water and swelling up of (xii) hydrophilic substance is known as:
- Plasmolysis * De-plasmolysis * Imbibition * Osmosis Late blight of potato is caused by: (xiii)
- Ulva is also known as: (xiv) Sea-grass * Sea-lettuce * Sea-urchin * none of these

Phytophthora * Puccinia * Penicillium * Mucor

LAG phase Stationary phase

Bacteria grow and multiply very rapidly during:

- Cell membrane is composed of (xvi) Carbohydrate & Lipid Protein & Carboby drate
- Lipid and Vitamin Protein and Alba
- (xvii) The process by which cell membrane absorb solid particles is called:

(xviii) The final tool for classification is:

Time: 1 Hours 45 Minutes

causative agents.

(ii)

(iii)

(ix)

(xii)

(xiii)

Cytology * Homology * Biochemistry * Genetics BOTANY

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

NOTE: Answer 11 questions from this section.

Pinocytosis * Diffusion * Phagocytosis * Absorption

Marks: 36

Draw a labeled diagram of Fluid mosaic model of cell 2.(i) membrane. Define any one of the following: (a) Facilitated diff(s)

Active transport (c)

Trace the evolution of leafing reen plants

- Draw a labeled diagram of any one: (iv) Bacter Dhage Virus (b) L.S. of Ovule State the role of Phosphorus OR Potassium in the (V)
- development of plants and its deficiency symptoms. Explain the two factors which affect the opening and (vi)
- closing of Stomata. How are Bacteria classified on the basis of Flagella? (vii) Name any four Viral disease with their respective (viii)
- Write a note on Oxidative phosphorylation. (x) Draw a diagram showing efficiency of Food chain. (xi)Name five major groups of Tracheophyta with examples.

polyphyletic group of organisms?

Why do biologists consider kingdom Protoctista as a

Discuss the techniques to isolate the components of a XIV) cell. (xv) Write a note on Cytoskeleton OR Nucleus.

Write a note on Lysosomal storage disease.

- Differentiate between Prokaryotes and Eukaryotes, (iVX) Draw structure of Chlorella (no description is required) OR
- SECTION'C' (DETAILED-ANSWER QUESTIONS NOTE: Answer 2 question from this se

Describe and draw the life quale of

Describe virus. fungus. disease caused by Discuss the life cycle of Moss. 4. Give floral characters, floral formula, floral diagram and 5.

Basidiomycetes

economic importance of family Solanaceae. Explain the events that take place during light reaction OR of photosynthesis.