BOTANY VARO Warks: 09 Time: 15 Minutes ICE QUESTION) **SECTION "A"** Choose the corre answer for each from the given options: Flow of energy in an ecosystem is: (i) Cyclic . Non-cyclic . Uni-directional . Multi-directional (ii) This is not a member of basidiomycota: Jelly Fungi • Puffballs • Mushrooms • Neurospora (iii) Excess water in plants is forced out in the form of droplets through: Cuticle • Hydathodes • Stomata Family in which ovary is obliquely placed is: (iv) Rosaceae • Solanaceae • Poaceae • Caesalpinaceae This protein is present in microtubles: Tubulin Keratin • Myosin Actin (vi) A chromosome with equal arms is:
• Acrocentric Telocentric • Submetacentric • Metacentric By this process pyruvate convert into three molecul (vii) of CO₂: Kreb cycle C₃ cycle • C₄ cycle (viii) Parasexuality occurs all m Basidiomycota Zygomycota ómycota Late blight Potato is caused by: (ix)Yeast • Puccinia • Ustilago • Phytophthora

Stationary phase Decline phase Mad crow disease is caused by: (xi)

(x)

(XV)

LAG phase

Virus • Viroid •

Obligate anaerobes

Rhabdoviruses

Aflatoxin

Neuotoxin

Conidia

theory.

Lichen.

following:

2.(i)

(ii)

(iii)

(vi)

(vii)

(ix)

(X)

(a)

(xi)

(xiv)

During this stage bacteria grow & multiply rapidly:

LOG phase

Prion • Bacteria

(xii) Enzyme responsible for the Carboxylation in Calvin Benson cycle is:

Granum • Mitochondria • Stroma • Ribosome (xiv) In woody stem transpiration takes place through:

(xiii) Dark reaction of Photosynthesis occur in:

Rubisco • Pepsin • Peptide • Isormerase

Bacteria which can only survive in the presence oxygen are: Obligate aerobes

Stomata • Lenticels • Cuticle • Hydathodes

Obligate aerobes
Obligate anaerobes
Obligate anaerobes

Encephanis and dengue fever are caused by: Rhinoviruses Paramyxoviruses

Arboviruses

Mycotoxin

Haematoxin

Aplanospores

(xviii) In chlorella reproduction takes place by means of: Zoospores Gametes

(xvii) Aspergillus flavus produce this carcinogenic toxin:

BOTANY 2015 Time: 1 Hours 45 Minutes Marks: 36

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

NOTE: Answer 11 questions from this section.

Who proposed cell theory? State postwillages

State the role of water or chlorophyll in Photosynthesis. Name five kingdoms proposed by Whittaker. (iv) (V) Describe the importance and deficiency symptoms of

State the structure of Rhynia Plant or write note on

Write note on Mitochandra of

nitrogen in Plants.

Aerobic Respiration and Anaerobic Respiration Angiosperm and Gymnosperm (viii) Write note on transmission of HIV.

State the economic importance of family poaceae.

Rice (b) Potato (c) Tomato (d) Wheat (e) Tamarind

Write down the botanical names of any four of the

State four important events take place during light

L.S. of Ovule of an angiospermic plant of a CO

Imbibition

Distinguish between any one of the following:

dependent reaction of photosynthesis. (xii) Explain Source – Sink Movement. (xiii) Draw a labeled diagram of any one of the following:

L.S. of Male Cone of Pinus

Draw an outline of classification of Kingdon Plantae. (XV)Define any Trop of the following: (xvi) Plasmolysis

SECTION'C' (DETAILED- ANSWER QUESTIONS)

How Bacteria are classified on the basis of Hagella.

Answer 2 question from this section(14) Describe lytic cycle of Bacteriophage and distinguish it 3.

from Lysogenic cycle.

Water Potential (d)

OR Describe the structure and reproduction in Ulva with reference to Isomorphic alternation of generation. 4. Describe floral characters, floral formula, floral diagram importance of family Rosaceae economic

Fabaceae. 5. Describe the process of Glycolysis. Also draw flowchart OR Describe the mechanism of Ascent of Sap.