



EXAMINATION MATERIAL ZUEB - 2022

BOTANY XI (PRE-MEDICAL)

SECTION "B" CONSTRUCTED RESPONSE QUESTION (CRQ)

<p><b>CHAPTER 1 THE CELL</b></p>	<p><b>(Non-Reasoning)</b></p> <p><b><u>Question no.01:</u></b> Name two techniques used to isolate the component of cell.</p> <p><b><u>Question no.02:</u></b> Define one function each of the following: (a) Ribosome (b) Mitochondria</p> <p><b><u>Question no.03:</u></b> Name lysosomal storage disease?</p>	<p><b>(Reasoning)</b></p> <p><b><u>Question no.01:</u></b> Which organelle is considered as substitute of lysosomes in plants?</p> <p><b><u>Question no.02:</u></b> State the postulates of Cell theory</p>
<p><b>CHAPTER 2 VARIETY OF LIFE</b></p>	<p><b>(Non-Reasoning)</b></p> <p><b><u>Question no.01:</u></b> What are Prions?</p> <p><b><u>Question no.02:</u></b> Name any four viral diseases with their respective causative agents.</p> <p><b><u>Question no.03:</u></b> Name five kingdom proposed by Margulis and Schwartz</p>	<p><b>(Reasoning)</b></p> <p><b><u>Question no.01:</u></b> What was the major snag in Whittaker scheme?</p> <p><b><u>Question no.02:</u></b> Draw a labeled diagram of Bacteriophage virus.</p> <p><b><u>Question no.03:</u></b> How HIV transmission occurs?</p>
<p><b>CHAPTER 3 THE KINGDOM PROKARYOTAE (MONERA)</b></p>	<p><b>(Non-Reasoning)</b></p> <p><b><u>Question no.01:</u></b> Name the phases of Bacterial growth.</p> <p><b><u>Question no.02:</u></b> What is Heterocyst?</p> <p><b><u>Question no.03:</u></b> Write two silent features of cyanobacteria.</p>	<p><b>(Reasoning)</b></p> <p><b><u>Question no.01:</u></b> How bacterial cell different from plant cell?</p> <p><b><u>Question no.02:</u></b> How are bacteria classified on the basis of flagella?</p>

<p><b>CHAPTER 4 THE KINGDOM PROTISTA (PROTOCTISTA)</b></p>	<p><b>(Non-Reasoning)</b></p> <p><b><u>Question no.01:</u></b> Discuss diversity of Kingdom Protoctista.</p> <p><b><u>Question no.02:</u></b> Define Isomorphic alteration of generation.</p>	<p><b>(Reasoning)</b></p> <p><b><u>Question no.01:</u></b> Why do Biologist consider kingdom Protoctista as a polyphyletic group of organisms?</p>
<p><b>CHAPTER 5 THE KINGDOM FUNGI</b></p>	<p><b>(Non-Reasoning)</b></p> <p><b><u>Question no.01:</u></b> Name the four groups of fungi along with their reproductive structures.</p> <p><b><u>Question no.02:</u></b> Name various types of Ascocarp.</p> <p><b><u>Question no.03:</u></b> Write name of diseases caused by fungi in plants and animals.</p>	<p><b>(Reasoning)</b></p> <p><b><u>Question no.01:</u></b> Why yeast is placed in fungi when it is unicellular?</p> <p><b><u>Question no.02:</u></b> Why is Deuteromycetes called Fungi imperfect?</p>
<p><b>CHAPTER 6 THE KINGDOM PLANTAE</b></p>	<p><b>(Non-Reasoning)</b></p> <p><b><u>Question no.01:</u></b> Write the names of five groups of Vascular plants.</p> <p><b><u>Question no.02:</u></b> Mention three steps of evolution of seed in plants.</p> <p><b><u>Question no.03:</u></b> Give the outline of the classification of Kingdom Plantae.</p> <p><b><u>Question no.04:</u></b> Define Heterospory.</p> <p><b><u>Question no.05:</u></b> Name different parts of a Carpel.</p> <p><b><u>Question no.06:</u></b> Write down the botanical name of any four of the following</p> <ol style="list-style-type: none"> <li>Rice</li> <li>Potato</li> <li>Tomato</li> <li>Wheat</li> <li>Tamarind</li> </ol>	<p><b>(Reasoning)</b></p> <p><b><u>Question no.01:</u></b> Why gymnosperms have naked seed but not angiosperm?</p> <p><b><u>Question no.02:</u></b> Why spermopsida termed as successful group of land plant.</p> <p><b><u>Question no.03:</u></b> Draw the labeled diagram of any one of the following: *L. S Male Cone of Pinus T.s of Marchantia thallus</p>

<p><b>CHAPTER 7 BIOENERGETICS</b></p>	<p><b>(Non-Reasoning)</b></p> <p><b><u>Question no.01:</u></b> Write the names of reactants and products of Photosynthesis.</p> <p><b><u>Question no.02:</u></b> What is fermentation? Also name its types.</p> <p><b><u>Question no.03:</u></b> Which compound receives CO<sub>2</sub> during dark reaction?</p> <p><b><u>Question no.04:</u></b> State four important events take place during light dependent reaction of photosynthesis.</p> <p><b><u>Question no.05:</u></b> Differentiate between Aerobic and Anaerobic Respiration.</p>	<p><b>(Reasoning)</b></p> <p><b><u>Question no.01:</u></b> Why is ATP called the Currency of Energy?</p> <p><b><u>Question no.02:</u></b> Why Krebs cycle is also called TCA cycle?</p>
<p><b>CHAPTER 8 NUTRITION</b></p>	<p><b>(Non-Reasoning)</b></p> <p><b><u>Question no.01:</u></b> Give two symptoms of nitrogen deficiency in plants</p> <p><b><u>Question no.02:</u></b> Define autotrophic nutrition in plants.</p> <p><b><u>Question no.03:</u></b> What is the role of phosphorus in growth of plant?</p>	<p><b>(Reasoning)</b></p> <p><b><u>Question no.01:</u></b> Why do insectivorous plants trap insects while they also prepare carbohydrates by Photosynthesis?</p>
<p><b>CHAPTER 9 GASEOUS EXCHANGE</b></p>	<p><b>(Non-Reasoning)</b></p> <p><b><u>Question no.01:</u></b> Name the two processes of gaseous exchange in plants.</p> <p><b><u>Question no.02:</u></b> Define Photorespiration.</p>	<p><b>(Reasoning)</b></p> <p><b><u>Question no.01:</u></b> Why is air considered better respiratory medium than water?</p> <p><b><u>Question no.02:</u></b> Why photorespiration is called wasteful process?</p>
<p><b>CHAPTER 10 TRANSPORT</b></p>	<p><b>(Non-Reasoning)</b></p> <p><b><u>Question no.01:</u></b> What are the three different pathways available in root for water to enter Xylem? State Root pressure theory.</p>	<p><b>(Reasoning)</b></p> <p><b><u>Question no.01:</u></b> Discuss why transpiration is a necessary evil.</p>

**Question no.02:**

Define transpiration. Name various type of transpiration.

**Question no.03:**

Define any 2 of these terms:

- Diffusion
- Ascent of sap
- Imbibition

