

XIIth SCI THEORY 2023-24

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Date : 09/10/2023

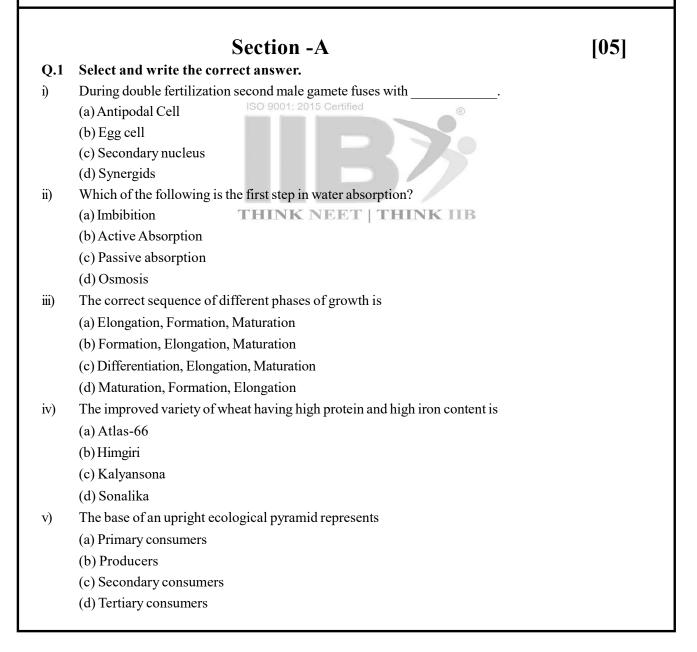
Botany Theory Round -01

Max.Marks :- 35 Time 90 Minutes.

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General Instructions : The question paper is divided into four sections.

- (1) Section A: Q.No.1 contains Five Multiple choice type of question carrying One mark each.
 - Q.No.2 contains Four very short answer type of questions carrying **One** mark each.
- (2) Section B: Q.No.3 to Q.8 are short answer type of question carrying Two marks each.
- (3) Section C: Q.No.9 to Q. No.14 are short answer type of questions carrying Three marks each
- (4) Section D: Q.No.15 to Q.No.18 are long answer type of questions carrying Three marks each.
- (5) Figures to the right indicate full marks



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Q.2 Answer the following	[04]
(i) Define clones.	[••]
(ii) If in a fully turgid cell, $T.P = O.P$, then what will be its DPD?	
(iii) What is biofortification?	
(iv) Can you tell?	
Which plant organ does show both arithmetic and geometric growth?	
Section -B : Attempt any -4 (Q.3 to 8) Answer the following questions :	[08]
Q.3 Identify the type of asexual reproduction given in the figures.	
Q.4Differentiate between Apoplast pathway and Symplast pathway.Q.5Write a short note on toxicity of micronutrients.Q.6Explain in brief mutation breeding.Q.7Define StratificationQ.8Enlist the types of Pyramids.THINK NEET THINK IB	
Section -C: Attempt any 4 (Q.9 to 14)	[12]
 Q.9 Define the following terms : (i) Chasmogamy (ii) Cleistogamy (iii) Homogamy 	
Q.10 Explain the term root pressure, Name the instrument used to measure root pressure.	
Q.11 Give a diagrammatic representation of nitrogen cycle.	
Q.12 Explain the concept of single cell protein giving examples	
Q.13 What is Productivity? Explain their types.	
Q.14 Draw neat and labelled diagram of anatropous ovule and explain its structure in detail.	
Section -D : Attempt any 2 (Q.15 to 18)	[06]
Q.15 Write a short note on entomophily.	
Q.16 What is transpiration? Describe mechanism of opening and closing of stomata.	
Q.17 Give an account of application of Plant Tissue Culture.	
Q.18 What is decomposition? Enlist the steps of decomposition.	