

MODEL QUESTIONS-BOTANY

1. **Assertion (A):** The energy requirement for the formation of one hexose molecule is more in chlorella than in sugarcane
Reason (R): The formation of phosphoenol pyruvic acid from pyruvic acid requires two ATP molecules.

The correct one is

- 1) Both (A) and (R) are true and (R) is the correct explanation of (A).
 - 2) Both (A) and (R) are true but (R) is not the correct explanation of (A).
 - 3) (A) is true, (R) is false.
 - 4) (A) is false, (R) is true.
2. Which of the following statements related to protein synthesis are true?
- (I) Transcribed hnRNA and mRNA of gene are similar in size.
 - (II) The 3'CCA and of tRNA acts as amino acid binding site
 - (III) f-met tRNA binds on to the 'P' site in ribosome.
 - (IV) The protein factor called RF₃ helps in recognizing the termination codon.
- 1) (I), (III) 2) (II), (III) 3) (II), (IV) 4) (I), (IV)
3. Inflorescence found in Asteraceae members:
- 1) Spadix 2) Cyathium 3) Head 4) Umbel

4. Match the following

LIST A

- A. Syncarpous
- B. Bicarpellary
- C. Tricarpellary
- D. Apocarpous

LIST B

- I. Lotus
- II. Tomato
- III. Datura
- IV. Onion

Identify the correct match between **List-A** and **List-B**

- (1) A-II, B-IV, C-I, D-III
 - (2) A-II, B-III, C-IV, D-I
 - (3) A-III, B-II, C-I, D-IV
 - (4) A-IV, B-III, C-II, D-I
5. Naked ovules are the characteristic feature of
- 1) Bryophytes 2) Angiosperms 3) Gymnosperms 4) Pteridophytes
