

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 | LIST B |
|------------------|---------------|
| A. Syncarpous | I. Lotus |
| B. Bicarpellary | II. Tomato |
| C. Tricarpellary | III. Datura |
| D. Apocarpous | IV. Onion |
- Identify the correct match between **List-A** and **List-B**
- | | | | | |
|----|-----|-----|----|-----|
| 1) | A | B | C | D |
| | II | IV | I | III |
| 2) | A | B | C | D |
| | II | III | IV | I |
| 3) | A | B | C | D |
| | III | II | I | IV |
| 4) | A | B | C | D |
| | IV | III | II | I |
5. Naked ovules are the characteristic feature of
1) Bryophytes 2) Angiosperms 3) Gymnosperms 4) Pteridophytes