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(20721) Roll No. ....  
B.Sc. (Biotech.)-II Year

**NS-3471 (CV-II)**

**B.Sc. (Biotechnology) Examination,**

**June-2021**

**PLANT PHYSIOLOGY**

**(B-208)**

**B.Sc. (Bio-tech.)**

*Time : 1½ Hours ] [Maximum Marks : 50*

**Note :** Attempt any **two** questions. **All** questions carry equal marks.

1. Write an elaborate note on various photosynthetic pigments, their occurrence and role.
2. Write short notes on any **two** :
  - (a) C<sub>3</sub> Plants

(b) Senescence

(c) C<sub>4</sub> Plants

3. Explain the mechanism of *photoperiodism* in plants. Give suitable examples.
4. Describe the phenomenon of atmospheric Nitrogen Fixation.
5. Write an elaborate note on various mineral nutrients, their deficiency symptoms and diseases.
6. Draw and explain about Krebs's cycle.
7. Write short notes on any **two** :
  - (a) Auxins
  - (b) Ethylene
  - (c) Abscissic Acid
8. Elaborate on Electron Transport Chain in Plants.

**P.T.O.**

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9. Write short notes on :
- (a) Oxidative Phosphorylation
  - (b) Photorespiration
10. Write essay on the following :
- (a) Growth in Living Organisms
  - (b) Significance of RUBISCO