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**BSH 502**

**Third Semester M.Sc. Degree Examination, December 2018**  
**(CBCS)**  
**BIOSCIENCES**  
**Plant Physiology**

Time : 3 Hours

Max. Marks : 70

Write short notes on **any four** of the following (**not exceeding 2 pages each**) :

**(4×4=16)**

1. a) Hydroponics
- b) Water potential
- c) Ethylene
- d) CAM plants
- e) Guttation
- f) Florigen.

Write explanatory notes on **any five** of the following (not exceeding **3 pages each**) :

**(5×6=30)**

2. Mechanism of stomatal movement.
3. Role of micronutrients on plant growth and development.
4. Carbon dioxide fixation in C<sub>3</sub> and C<sub>4</sub> plants.
5. Non-cyclic photophosphorylation.
6. Deficiency symptoms of major elements in plants.
7. Mode of action and role of abscisic acid in plants.
8. Measurement of growth in plants.

P.T.O.



Answer **any two** of the following (**not** exceeding **8** pages **each**) : **(2×12=24)**

9. Explain the mechanism of translocation of water and solutes in plants.
  10. Discuss the mode of action and applications of auxins.
  11. Describe oxygenic and anoxygenic photosynthesis.
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