

Reg. No.

--	--	--	--	--	--	--	--	--	--



**BOH 452**

**II Semester M.Sc. Degree Examination, September/October 2022**  
**(CBCS)**  
**BOTANY**  
**Plant Physiology**

Time : 3 Hours

Max. Marks : 70

I. Answer **any three** of the following. (**Each** answer **not** exceeding **5** pages) **(3×10=30)**

- 1) Describe the mechanism of transport of molecules across membranes.
- 2) Enumerate the role of phytohormones in agriculture.
- 3) Differentiate between  $C_3$  and  $C_4$  cycle of carbon fixation.
- 4) Give a brief outline of morphogenesis and organogenesis in plants.
- 5) Define stress physiology and explain the mechanism of temperature response in plants.

II. Write notes on **any six** of the following. (**Each** answer **not** exceeding **3** pages.)

**(6×5=30)**

- 6) Transpiration.
- 7) Biosynthesis of auxins.
- 8) Light harvesting complexes.
- 9) Biological clock.
- 10) Mineral nutrition.
- 11) Floral development.
- 12) Allelopathy.
- 13) Stress tolerance.

III. Write a short notes on **any five** of the following :

**(5×2=10)**

- 14) Phyllotaxy.
  - 15) Water potential.
  - 16) Abscission
  - 17) Red drop.
  - 18) ETS.
  - 19) Cryptochromes.
  - 20) CAM cycle.
-