

Govt. Degree College Basohli

Internal Assignment Test of Semester 4th (Session 2019-20) for Promotion to Semester 5th

Subject: BOTANY

Note: All questions are compulsory. The answer should be in detail covering diagrams/ figures/ etc. if required and based on more than one source for high scoring..A medium size notebook (separate for each subject) shall be used for writing the assignment test and all the assignments relating to one student shall be **submitted together in the college in one visit** latest by 31/08/2020. (Students shall strictly follow the COVID-19 guidelines issued by the Govt. during their visit to the college such as maintaining social distancing and wearing the face mask).

Theory

Max. Marks: 30

Section A

Long Answer Questions

(3 marks each)

- Q. 1. Explain the process of transpiration and guttation.
- Q. 2. What are mineral elements? Explain the macro and micro elements. Write the role of Nitrogen and Magnesium in plants.
- Q. 3. Write a short note on Glycolysis.

Section B

Long Answer Questions

(7 marks each)

- Q. 4. What are enzymes? Explain the various classes of enzymes and mechanism of enzyme Action.
- Q. 5. Define mineral uptake. Explain the process of ion transport (active and passive) in plants.
- Q. 6. Explain the Calvin cycle in detail with necessary diagrams.

Practical

- Q. 1. Write the procedure for effect of temperature on plasma membrane. (5 marks)
- Q. 2. Write the procedure for the pigment separation through paper chromatography. Draw the diagrams also. (5 marks)
- Q. 3. Viva-voce.