

SEM	SET	PAPER CODE	TITLE OF THE PAPER
II	2014	14PBO2106	PLANT PHYSIOLOGY

SECTION – B**Answer all the questions:****5 x 5 = 25**

31. a. What are the significances of osmosis in plants.

OR

b. Comment upon antitranspirants.

32. a. Explain the mechanism of photo-oxidation of water.

OR

b. Explain the mechanism of photophosphorylation.

33. a. How is glucose converted into pyruvic acid through EMP pathway?

OR

b. Discuss why Citric acid cycle seems to be amphibolic in nature.

34. a. Explain the enzymatic steps involved in nitrate assimilation.

OR

b. What is photoperiodism? How are plants classified based on the length of photoperiod?

35. a. Explain the factors that cause dormancy of seeds.

OR

b. What are the physiological changes take place in senescing cells?

SECTION – C

Answer any THREE questions:

3 x 15 = 45

36. Explain the various mechanism of mineral ion uptake by active absorption.
37. Give a detailed account of Hatch and Slack pathway of CO₂ fixation.
38. Describe the Pentose Phosphate Pathway of glucose oxidation, mentioning its importance.
39. Describe the agricultural uses of plant hormones.
40. Give a detailed account of salt stress in plants.
