MAHARASHTRA AGRICULTURAL UNIVERSITIES EXAMINATION

No. : H/BOT 111	
: 2(1+1)	Title : Introductory Crop Physiology
Date : Friday, 21.12.2018	Time : 09.00 to 11.00 Total Marks : 40
 All questions from SECTION All questions carry equal methods 	DN "B" are compulsory. arks.
S	ECTION "A"
Define photosynthesis. Describe in o	letail factors affecting rate of photosynthesis.
Define transpiration. Explain the fac	tors affecting the rate of transpiration.
Define drought. Enlist different type	s of stresses and explain any one.
Define water potential. Explain diffe	crent components of water potential.
Define photophosphorylation. Desc	ibe in detail non cyclic photophosphorylation.
Explain the leaf anatomy and Hatch	and Slack cycle of C_4 plants.
Define ascent of sap. Describe in br	ef transpiration pull theory of ascent of sap.
Define essential elements. Describe	Mengal's classification of plant nutrients.
Define photorespiration. Explain the	mechanism of photorespiration.
Write short notes (Any Two):	
a) Opening and closing of stomata	b) Passive absorption
c) Chloroplast	
S	ECTION "B"
Define the following terms.	
1) Imbibition	2) Plasmolysis
3) Diffusion	4) Crop Physiology
Answer in one sentence.	
1) Which is the site of light reaction	?
2) Enlist one example of CAM plan	.S.
3) What is meant by autotrophs?	
4) Enlist one example of C ₃ plants.	
	Note: 1. Solve ANY EIGHT question 2. All questions from SECTIO 3. All questions carry equal ma 4. Draw neat diagrams wherev SE Define photosynthesis. Describe in d Define transpiration. Explain the fac Define drought. Enlist different type Define water potential. Explain diffe Define photophosphorylation. Descr Explain the leaf anatomy and Hatch Define ascent of sap. Describe in bri Define essential elements. Describe Define photorespiration. Explain the Write short notes (Any Two): a) Opening and closing of stomata c) Chloroplast SE Define the following terms . 1) Imbibition 3) Diffusion Answer in one sentence. 1) Which is the site of light reaction 2) Enlist one example of CAM plant 3) What is meant by autotrophs?

B.Sc. (Hons.) Horticulture

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