11/28/2020

Exam Date & Time: 26-Sep-2020 (10:00 AM - 01:30 PM)



PSG COLLEGE OF ARTS AND SCIENCE

Note: Writing 3hrs: Checking & Inserting Image: 30mins

BSc DEGREE EXAMINATION MAY 2020 (Sixth Semester)

Branch - Biochemistry

PLANT BIOCHEMISTRY [14BCV24]

Marks: 75		Duration: 210 mins.
	SECTION A	
Answer all t	he questions.	The service
1)	Name the two photosystems and their significance.	(2)
2)	What is the absorption range of chlorophylls?	(2)
3)	Give two examples of CAM plants.	(2)
4)	What is the first reaction in C ₄ cycle?	(2)
5)	Define ammonification.	(2)
6)	What is PAPS?	(2)
7),	Give the structure of ABA.	(2)
8)	Name the enzymes involved in biosynthesis of ethylene.	(2)
9)	Define dormancy.	(2)
10)	Name the lipids stored in seeds.	(2)
	SECTION B	
Answer all	the questions.	
11)	Outline a note on photosynthetic pigments.	(5)
a) [OR] b)	Write a note on Emerson effect.	(5)
	A colored design and a second plan	

12)	Give an account on synthesis and degradation of sucrose.	
		(5)
a) [OR] b)	Briefly discuss the CAM cycle.	(5)
13)	Write a note on nitrate reduction.	
		(5)
a) [OR] b)	Briefly discuss the nutrient role and deficiency symptoms of sulphur.	(5)
14)	Describe the physiological functions of cytokinins.	
		(5)
(OR) b)	List the physiological functions of ethylene.	(5)
15)	Elaborate the methods of breaking dormancy.	
		(5)
a) [OR] b)	Explain the biochemical changes during germination.	(5)
	SECTION C	
Answer 3 o	out of 5 questions.	
16)	Bring out the hill reaction.	(10)
17)	Discuss the reactions of C ₃ cycle.	(10)
18)	Write an essay on symbiotic nitrogen fixation in legumes.	(10)
19)	Summarise the synthesis and physiological functions of indole acetic acid.	(10)
20)	Explain the physiology of seed germination.	(10)

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