Course outline

course work?

Assignment 0

Week 01

Week 02

Week 03

Week 04

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Mentor

1 point

## Unit 5 - Week 03

How does an NPTEL online

Lecture 11: Photosynthesis-I

Lecture 12: Photosynthesis-II

Lecture 13: Photosynthesis-III

Lecture 14: Photosynthesis-IV

Lecture 15: Photosynthesis-V

O Quiz: Assignment 3

Feedback for Week 3

Solutions - Assignment 3

Assignment 3	
The due date for submitting this assignment has passed. As per our records you have not submitted this assignment.	Due on 2020-03-18, 23:59 IST.
Role of water in photosynthesis was shown by	1 poi
Theodore Saussare	
Julius Robert Meyer	
Joseph Priestley	
None of the above	
No, the answer is incorrect. Score: 0	
Accepted Answers:	
Theodore Saussare	
Jan Ingenhousz is known to prove the role of in photosynthesis	1 poi
water	
oxygen	
○ light	
carbon dioxide	
No, the answer is incorrect. Score: 0	
Accepted Answers:	
light	
3) Chlorophyll is different from heme group because	1 poi
it has a planar aromatic ring	
of four substituted tetrapyrole rings are part of the complex	
it absorbs in the visible spectrum	
it does not contain a transition metal at the core of the complex	
No, the answer is incorrect. Score: 0	
Accepted Answers: it does not contain a transition metal at the core of the complex	
4) Which of these is not a property of both P680 and P700 reaction centres	1 poi
Both are photosystems	

1 point 1 point 1 point Both are electron donors Both are activated in visible range Both are involved in oxygen evolution No, the answer is incorrect. Score: 0 Accepted Answers: Both are involved in oxygen evolution 5) The thylakoid vesicles occur in stacks that are called 1 point Lumen Grana Stroma Lamella No, the answer is incorrect. Score: 0 Accepted Answers: Grana 6) The total energy captured by photosynthesis in green plants from the solar radiation is about \_ of energy per year. 1 point 2 x 10<sup>13</sup> joules 2 x 10<sup>30</sup> joules 2 x 10<sup>23</sup> joules 2 x 10<sup>35</sup> joules No, the answer is incorrect. Score: 0 Accepted Answers: 2 x 10<sup>23</sup> joules 7) Chloroplasts are one member in a family of related plant specific organelle known as \_\_\_\_\_\_. 1 point chromatids parasites plastics plastids No, the answer is incorrect. Score: 0 Accepted Answers: plastids 8) Which of these is involved in water splitting during photosynthesis? 1 point Mo cluster Fe-S cluster Cytochrome- PQ cluster Mn cluster No, the answer is incorrect. Score: 0 Accepted Answers: Mn cluster 9) The maximum red light absorption for PSI is at \_ 1 point 500 nm 460 nm 300 nm 700 nm No, the answer is incorrect. Score: 0 Accepted Answers: 700 nm 10) The 'R' group in chlorophyll a is \_\_\_ 1 point alkyl benzyl phenyl aldehyde No, the answer is incorrect. Score: 0 Accepted Answers: alkyl