Paper / Subject Code: 77403 / Life Sciences I: Physiology & Ecology. FY B'I Semester Th ATKT Q. P. Code: 31313 Just Life Sucrees-I sion : Morning / Afternoon 2 1/2 Hours 8 3CT 2018 Total Marks: 75 1. Attempt all questions. 2. All questions carry equal marks. 3. Draw neat labeled diagrams wherever necessary 4. Use of log tables and non-programmable calculator is allowed. 5. For Q.2, Q.3 and Q.4 attempt A and B OR C and D Do as directed (Any fifteen) 0.1 In Calvin cycle, carbon dioxide is first accepted by 1. The efficiency of CO2 absorption from low concentration is high in plants. The bundle sheath cells is unique characteristic of plants. 3. explains that water is used as a source of electrons for CO: 4. fixation and oxygen is evolved as a by product. Carbon assimilation phase is also called as 5. promotes growth of shoots at a relatively higher 6. concentration Define Excretion. 7. Name any one anticoagulant. 8. Give the composition of mammalian urine. 9 Right lung has 10. The Study of blood is called as 11. The pH of gastric juice is 12. Give the function of platelets. 13. State true or false. Lichens is an example of mutualism. 14 Give one example of Commensalism. 15 Define Ecosystem. 16. Define Chemoautotrophs. 17. Clostridium botulism produces toxin. 18. Define Nitrification.

Page 1 of 2

19.

Define Primary Productivity.

Paper & Subject Code: 77403 / Life Sciences 1: Physiology & Ecology.

Q. P. Code: 31313

Q. 2 A	Differentiate between Cyclic & Non-cyclic Photophosphorylation.	08
Q. 2 B	Discuss C ₃ cycle in plants.	07
	OR	
Q. 2 C	Differentiate between C ₃ & C ₄ Plants.	08
Q. 2 D	Discuss the significance of Abscissic Acid.	07
Q. 3 A	Describe the structure of Kidney with a neat labelled diagram.	08
Q. 3 B	Give an account of Blood and its constituents and give its functions.	07
	OR	
Q. 3 C	Describe the External Structure of Human Heart with a neat labelled diagram.	08
Q. 3 D	Give an account of Digestion in small intestine of humans.	0.7
Q. 4 A	What are ecological pyramids? Explain its types.	08
Q. 4 B	Explain in detail Predation.	07
	OR OR	
Q.4C	Discuss Carbon Cycle.	08
Q. 4 D	Discuss Detritus food chain.	07
Q 5	Write Short notes on any three of the following	15
a.	Auxins.	
b.	Granulocytes.	
c.	Nephron.	
d.	Kinds of Ecosystem.	
e.	Food web.	