



13. a) Describe the photosynthetic apparatus.  
(OR)  
b) Write short notes on Photosynthetic units.
14. a) Describe the mechanism of Anaerobic Respiration.  
(OR)  
b) Describe the biological nitrogen fixation.
15. a) Write about Photoperiodism.  
(OR)  
b) Write about Phytochrome.

**SECTION – C****(5 X 8 = 40 MARKS)****ANSWER EITHER (a) OR (b) IN EACH OF THE FOLLOWING QUESTIONS. K3**

16. a) Explain the factors affecting transpiration.  
(OR)  
b) Describe the mechanism of stomatal transpiration.
17. a) Write short notes on mineral deficiency in plants  
(OR)  
b) Explain the Trace elements & Tracer Elements.
18. a) Explain C<sub>3</sub> cycle.  
(OR)  
b) Explain C<sub>4</sub> cycle.
19. a) Write about TCA cycle?  
(OR)  
b) Give an account of the nitrogen cycle in nature?
20. a) Write an essay on vernalization.  
(OR)  
b) Explain the biological clock.

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**ETHICAL PAPER**